Internal Floor Finishes (Commercial Flooring)

Contents

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winvic
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THE COMMERCIAL FLOORING COMPANY

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The Commercial Flooring Company (Midlands) Limited
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Company Registration No: 07530589
VAT Registration No: 109092721

THE COMMERCIAL FLOORING COMPANY

Scope of Works

Contract: Wingates Plot 3
Winvic Construction
Contract No: P23012

The Commercial Flooring Company (Midlands) Ltd
Contract No: P23-9541

The Commercial Flooring Company (Midlands) Limited
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VAT Registration No: 109092721

Installation and Supply of Soft Flooring to

at

Wingates
Bolton Unit 3
Panattoni Park
Great Bank Road
Wingates
Bolton
BL5 3XN

The Commercial Flooring Company (Midlands) Limited
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O&M Compiled by Susan Jordan
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April 2024

Materials

Soft Flooring

Forbo Nuway Tuftiguard Classic – Entrance Matting
(Closed Construction - Double Wiper)
Grey Buffed Rubber

Interface Transformation - Carpet Tiles
Fern 1628010

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Adhesives & Latex

CFS – Trade Choice
Contact Spray

F Ball
F41

Rewmar
FlexyFix

Nosings & Trims

Quantum Z Range Nosings
ZHF1 - Mist

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Certificates/Warranties/Guarantees

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Warranty Information

Forbo Nuway Tuftiguard Classic – Entrance Matting
10 Years From Date of Invoice
11 April 2024 – 2024

Interface Transformation - Carpet Tiles
15 Years From Date of Invoice
02 May 2024 – 2039

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Product Guarantee Statement

Product(s)
Nuway range

Guarantee Period
10 years

Forbo Flooring UK Limited ("Forbo") will guarantee the above named Products for the respective period of years as stated above from the date of delivery from our premises ("the Guarantee Period") in accordance with the terms and conditions set out below.

Guarantee Scope

Forbo's commercial flooring range which includes the Products listed above is guaranteed when fitted for interior use only (except where the product specification states that the product may be fitted for exterior use, in which case the terms of this guarantee will apply). The interior use products are not designed for, and are not guaranteed in respect of, exterior use.

Forbo guarantees the above named Products against;

- Manufacturing defects notified during the Guarantee Period resulting in abnormal or premature wear of the surface or failure of component parts, as determined by Forbo (acting reasonably).
- Any apparent defects which are advised before or during the fitting. The Customer shall not be entitled to claim under this Guarantee if the defect was apparent on inspecting the material but the Customer continued to install the Product.

Guarantee Terms

In the event that the Product is determined to be defective by Forbo (acting reasonably), Forbo shall replace any defective material (which may be all, or part of an installation) in an identical floor covering or if such floor covering is unavailable or discontinued in the nearest alternative floor covering in terms of its aspect and quality.

This Guarantee is conditional on:

1) The defective Product and premises where the Product is laid/stored being made available to Forbo for inspection and testing.
2) Forbo being entitled to use any independent body as part of the inspection and testing process.
3) Preparation of the sub-floor and installation must be in accordance with the current CITB installation standard, Forbo Flooring guidelines, relevant standards and memorandums directly applicable to the Products at the time of installation.
4) All materials must be fitted using the fitting specifications recommended by Forbo.
5) Products have been cleaned and maintained in accordance with recommended Forbo guidelines.
6) The feet of furniture and any castors (for example used on chairs or cabinets) must be of a design which does not damage the floor covering.
7) No third party having attempted to undertake any remedial work.
8) Notice in writing is given to Forbo immediately when any alleged defect is discovered.
9) The total price for the Products supplied having been paid by the agreed date for payment

The replacement of defective materials under this Guarantee shall be limited dependent on the amount of time that has passed since the material was delivered.

For products with a ten year (or more) guarantee the following shall apply. If the claim is made within:

- First four years following date of delivery: 100% of the value of the acknowledged defective part.
- Fifth year following date of delivery: 75% of the value of the acknowledged defective part.
- Seventh year following date of delivery: 50% of the value of the acknowledged defective part.
- Tenth year following date of delivery: 30% of the value of the acknowledged defective part.

Forbo reserves the right at all times to carry out such remedial work as it in its absolute discretion considers necessary to correct any slight imperfection. This does not affect the Guarantee.

Exclusions

This Guarantee shall not apply in the event of:-

1) Any abnormal use applications not in accordance with those specified on the Sample Card, technical literature or installation guide.

2) Damage caused through accidents, fires, explosions, floods, negligence arising in the course of transportation and warehousing or other mis-handling, or caused by unqualified third parties attempting remedial works.

3) Use of the Product with underfloor heating systems which can surpass 27 degrees Celsius.

4) Damage caused by abrasive objects, knives, chemicals, chemical transference, dyes or burns.

5) Colour variation due to excessive U.V. radiation affecting light fastness.

6) Damage resulting from poor planning of the floor, unreasonable treatment and abuse, or from extreme pressures over a limited area (includes heavy loads, localised point loading and wheeled equipment or furniture).

7) Floor coverings which have been sold as "downgraded" or "seconds" products.

8) Damage resulting from incorrect fitting of the Products, including, but not limited to, incorrect or improper preparation of the floor on which the Product is fitted, or incorrect materials (including adhesives) used in fitting the Product.

9) Damage resulting from incorrect maintenance including improper cleaning methods or using non-approved cleaning materials (including high alkaline based products).

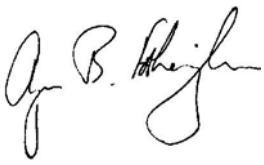
The limitations of liability set out in either (as appropriate based on the contractual relationship between us)

(i) our Terms and Conditions of Sale; or

(ii) the terms and conditions of contract between us, shall apply to this guarantee and, without prejudice to the terms and conditions, Forbo shall not be liable under this guarantee for any indirect or consequential loss or damage, loss of business, loss of custom, or costs incurred by third parties under the terms of this Guarantee.

This Agreement shall be read and construed in accordance with our Terms and Conditions of Sale in force from time to time. If there is any inconsistency between the Terms and Conditions of Sale and the terms of this Agreement, the latter shall prevail.

For and on behalf of Forbo Flooring UK Limited



Angus Fotheringhame
General Manager UK and Ireland

CLIMATE TAKE BACK™

Interface®

Interface EMEA end-user Product Warranty for European manufactured carpet tiles

Version: December 2020

Interface warrants its first-choice products in commercial use that are classified as EN 1307 Class 33 Heavy Contract Products plus EN 985 Castor Chair 2.4 or above with Graphlex® or CQuest™Bio backing or ReCushion Bac® of SONE™* to perform according to the EN 1307 Class 33 performance specifications for:

- dimensional stability
- static electricity discharge
- colourfastness 100% solution dyed yarns to light and atmospheric contaminants

and against abrasive wear (carpet should not lose more than 10% face fibre weight)

for a period of 15 years from the date of invoice.

If the products fail to perform as warranted, Interface may choose to either:

- repair the defective products;
- replace the defective products in the affected area by providing comparable products from the then current Interface collection; or
- pay a reasonable compensation for the defective products.

Interface's obligations regarding replacement are limited to making available the replacement product and covering reasonable freight costs and do not include labour and installation costs.

This warranty covers only manufacturing defects. It does not cover for example tears, burns, cuts, pulls, or other damage, deterioration or loss caused by abuse, misuse or improper maintenance, flood/excessive moisture, excessive alkalinity or damage from the use of heavy equipment, force majeure events or Acts of God. This warranty shall be void if the products are not handled, installed and maintained in strict compliance with Interface's recommended procedures applicable at the date of purchase, including, without limitation, initial floor preparation and installation, proper use of recommended adhesives and on-going correct maintenance. This warranty does not apply to any non-commercial installations, products which are "B" or other second choice products.

Interface must be notified of any defects in writing within ten (10) working days concerning any visible defects following delivery or within ten (10) days after these have become apparent for any hidden defect that appear after use. Following the receipt of a notification, an Interface representative might need to visit the site to assess the notified issue. Interface will require evidence of proof of purchase and reasonable cooperation to facilitate Interface's repair or replacement in the affected area should a covered condition exist.

Under no circumstances will Interface be liable for any incidental, indirect, special or consequential damages including but not limited to loss of income or loss of profit. Except as expressly provided herein and to the extent as permitted by applicable law, Interface shall have no other obligations, and user/buyer has no other rights vis-à-vis Interface, in regard to the conformity of the products and Interface makes no representations or warranties, express or implied, including, without limitation, any warranty of merchantability or fitness of its products for any particular purposes, and hereby disclaims the same.

Unless agreed otherwise in writing, this warranty shall be governed by and construed in accordance with the local laws of the country where the selling Interface entity is located and subject to the exclusive jurisdiction of the competent local courts where the selling Interface entity is located. The applicability of the Vienna Sales Convention is excluded.

*with the exception of products made out of staple fibres and products made with unitary backing.

Cleaning and Maintenance Regimes

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THE COMMERCIAL FLOORING COMPANY

Cleaning and Maintenance Regimes

This maintenance schedule for **P23012 Wingates Plot 3** is to be followed from PC date **01/07/2024** year on year to ensure all plant and equipment is kept within warranty.

Please keep a log of these inspections so that records can be checked should an issue arise.

Code; ✓ Blue – Recommended ✓ Red – To Maintain Warranty

Item	Daily	Weekly	Monthly	3 Months	6 Months	9 Months	Annually	5 Yearly	Certificates	Regime
Forbo Nuway Tuftiguard Classic – Entrance Matting	✓									Sweep/Vacuum - dependent of foot flow See full Cleaning and Maintenance Guide
Interface - Carpet Tiles	✓									Vacuum - dependent of foot flow See full Cleaning and Maintenance Guide
							✓			Deep Clean - dependent of foot flow See full Cleaning and Maintenance Guide
Quantum Z Range			✓							Scotch pad and soap-less detergent - dependent of foot flow See full Cleaning and Maintenance Guide

Forbo Floor Care – Nuway Tuftiguard

Forbo Flooring Cleaning and Maintenance advice:

Nuway Tuftiguard entrance flooring systems are manufactured specifically to remove and retain soil at building entrances to prevent it from being trafficked into buildings. The soil is retained by the Nuway entrance system until it is released during cleaning. As such, regular cleaning to remove the retained soil is essential to optimise long term performance, efficiency and appearance retention. Following these guidelines will ensure that the performance, efficiency and appearance of these products are retained. Nuway entrance flooring system products can be maintained using standard cleaning methods.

Initial clean before use

Remove all surface soil, debris, sand and grit by vacuuming using an upright vacuum with a mechanically driven rotating brush. Spot clean if necessary.

Regular Cleaning

The frequency of a regular cleaning method will depend on the amount of traffic, soiling type, soiling levels and desired appearance.

To remove dry soiling deposits:

- Vacuum using an upright vacuum with a mechanically driven rotating brush.
  Make several passes in both directions along the rib of the matting with the vacuum cleaner to ensure all loose dirt is removed. Vacuum action should be fast forward and slow backward.
  Spot clean if necessary.

To remove wet soiling deposits:

- Use a counter rotating brush head machine in conjunction with a neutral detergent suitable for polyamide fibres, ensuring all detergent residues are removed by rinsing thoroughly with water.

Periodic Maintenance

The Regular Cleaning actions above should be used when required to maintain optimum performance and appearance.
The frequency of Periodic Maintenance will depend on the efficiency of the Regular Cleaning actions in relation to the amount of traffic, soiling type, soiling levels experienced at individual entrances or locations.

To remove compacted soiling deposits:

- Hot water extraction using a neutral detergent suitable for polyamide fibres, ensuring all detergent residues are removed by rinsing thoroughly with water.
- Jet wash ensuring matting sections are dry on the reverse side before replacing.

Please note:

- *Hot water extraction cleaning can be carried out with the matting sections in situ provided the matting is not allowed to get saturated on the underside. Do not exceed 50°C temperature when using hot water systems.*
- *When jet washing, the mat sections should be removed from the matwell taking care to note the position of each section for correct replacement.*
- *It is best practice with open construction mats that the mat sections are removed periodically from the mat well to allow cleaning to remove any loose or compacted soil residues. Take care to note the position of each section for correct replacement.*
- *Jet Washing is not suitable for Nuway Tuftiguard Bamboo*

Spot Cleaning

- Remove spots with a neutral spot cleaner ensuring the area treated is thoroughly rinsed with clean water.

Do not use bleaching agents as these may damage the product and affect the colour

Issue Date: November 2014

Best Practice: Tips for effective floor care

General advice

Protect newly laid floors
All newly laid floors including entrance matting should be covered and protected from all other trades during the contract with a suitable non-staining protective covering.

Use Entrance Systems
As much as 80% of dirt entering a building is brought in by foot traffic. Entrance flooring systems of an appropriate size (ideally more than 6 linear meters) and quality should be used. Forbo Nuway and Coral entrance flooring systems, are independently proven to remove and retain dirt and moisture entering a building by foot traffic; reducing maintenance costs and maximising appearance retention of adjacent flooring products as well as reducing slip risk. As with any dirt removal system all entrance flooring systems should be regularly cleaned to release the dirt which has been removed.

Cleaning
- An entrance system works more effectively when clean and free from residual soiling.
- Regular cleaning is more beneficial and cost effective than occasional deep cleaning.
- Use recommended cleaning products. High quality cleaning products and equipment ensure efficient maintenance and represent only a small proportion of maintenance costs.
- Always follow the manufacturer's instructions for cleaning products.
- Always follow the Health and Safety guidance provided.

Use of Floor Care Chemicals
The use of high and low pH cleaning chemicals may cause damage and/or discolouration. Overuse or inadequate rinsing of cleaning chemicals may compromise the performance of the floor.

Frequently asked questions

How often should I clean my floor?
The optimum frequency for cleaning and maintenance is determined by the way the floor is used. When producing a cleaning and maintenance schedule it is good practice to consider the situation of the floor first: e.g. is it the main entrance to the building or a less used side entrance?
Will it collect dry or moist soil? What level of traffic will it be subjected to?
Remember bold colours may need to be cleaned more frequently to retain their appearance and avoid tracking in walking areas.

How do I remove stains?
Remove spots with a neutral spot cleaner ensuring the area treated is thoroughly rinsed with clean water.

Problem:	**Try:**
Chewing Gum	Use proprietary gel based gum remover.
Stain has returned	May be due to detergent residue not being fully rinsed after cleaning.

If any doubt exists test cleaning materials on a small area in an inconspicuous area.

Recommended Floor care products

Only pH neutral detergents suitable for polyamide fibres should be used for example, M2 Care Ultra, a pH neutral anti-bacterial cleaning solution available from the Wrennalls Group (Tel: 01772 435739 for further information).

Other floor care products may be used on Forbo Nuway tuftiguard entrance flooring systems. If alternative products are to be used please consult with your regular supplier for more information and guidance.

Contact us:

Web: www.forbo-flooring.co.uk
Email: info.flooring.uk@forbo.com
Telephone: 0800 0282 162
Fax: 01772 646912

Interface®

Carpet Tile Maintenance Guidelines

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Carpet Tile Maintenance Guidelines

Interface®

Rev. 04/12/21

The importance of Carpet Maintenance

Correct maintenance of carpet will not only extend the life of any carpet investment but will also help to preserve a satisfactory level of appearance and comfort within the working environment.

As part of a company's image, millions of pounds are spent on buildings and interior design concepts and poorly maintained carpets can adversely affect a facility's image, reduce product performance and accelerate the need for carpet replacement.

Interface recognises the need to maintain and extend the life of the carpet investment for environmental as well as financial reasons and offers a solution by providing a detailed carpet maintenance guide.

Interface can also offer training and supplemental support for the in-house maintenance team as well as more customised maintenance programmes tailored to a specific facility's needs.

PRODUCT SELECTION

Maintaining the carpet investment means more than choosing the correct cleaning methods. Selecting the right products – in terms of construction, design and colour – from the outset contributes greatly to its long term performance and appearance, for example:

- **Construction:** A dense pile construction can help to minimise wear problems due to soil ingress.
- **Colour:** As well as creating a distinctive image & statement the choice of colour can also serve a practical purpose. Colour plays an important role in determining soil hiding with, for example, mid to dark colours being better than light, bright colours or very dark colours.
- **Design:** Patterned carpets are the most effective at soil hiding with random designs being particularly useful.

Taking these factors, and more, into consideration Interface has classified its products according to their soil hiding potential. This should help in product selection but it should be made clear that this does not remove the need for a proper maintenance programme on the product during use.

Our Account Managers, in conjunction with our Site Service experts, will work alongside you to try and assist in choosing the correct product for the areas in question and the correct maintenance programme for your facility's needs.

Identifying your specific needs

Just as interior areas are subject to different levels of use each of these areas will require an appropriate level of maintenance and care. For example, heavily trafficked areas such as entrance lobbies and corridors require effective daily vacuum cleaning whilst areas around vending machines and desks need daily attention to spills and stains.

The building layout, type of usage, traffic patterns, hours of operation, etc., all need to be assessed when developing a maintenance programme and the following guide provides detailed advice on approved maintenance techniques and solutions.

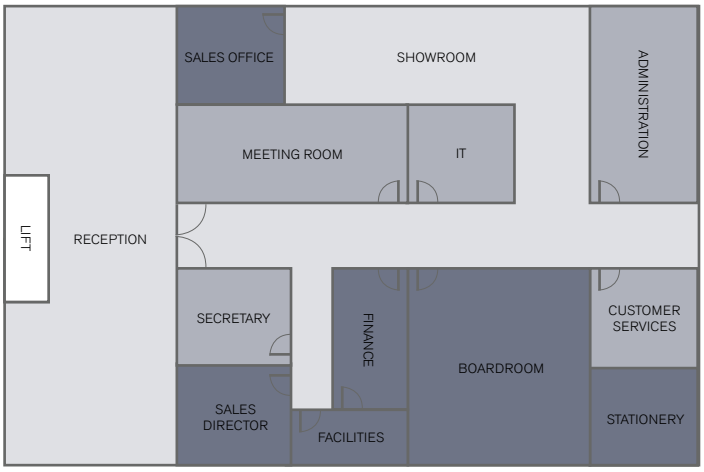
Routine care from the outset means a longer lasting product and improved long-term appearance and so the aim of the Interface maintenance guide is to maximise the life of your carpet and protect your investment.

Carpet Tile Maintenance Guidelines

Interface®
Rev. 04/12/21

Planned maintenance

With a clear maintenance programme, like the one shown below, facility managers and cleaning contractors will know where to concentrate their efforts at a glance. In this way, routine, interim and periodic maintenance can be scheduled at appropriate intervals as part of the programme.



Daily Maintenance

- Areas to be vacuumed daily
- Daily spot and stain removal

Programmed Cleaning

- Three monthly clean of heavy traffic areas
- Six monthly clean of medium traffic areas
- Twelve monthly clean of light traffic areas

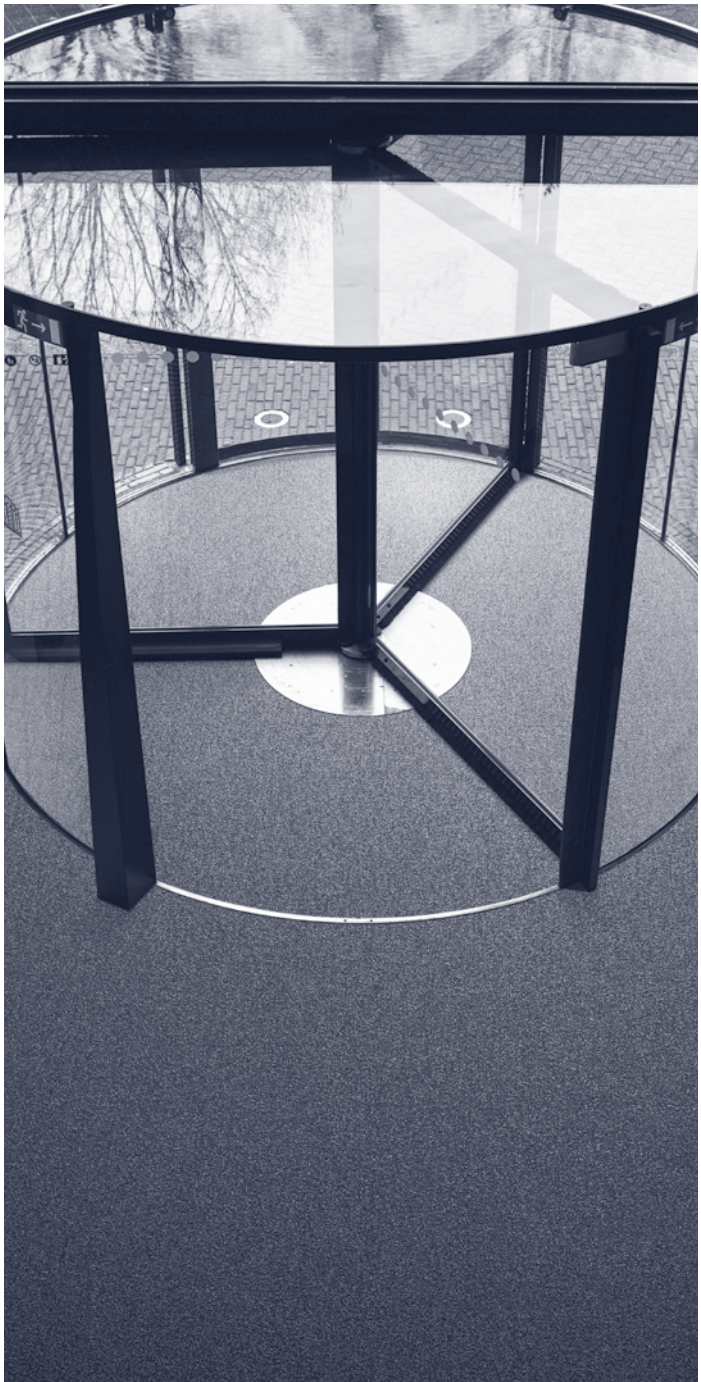
Preventative maintenance

BARRIER MATS

Barrier mats are an integral part of any maintenance programme as they are designed to capture inbound soil at threshold points i.e. entrances.

This soil can be removed by vacuum cleaning so that it does not spread to other areas. Barrier mats should be cleaned daily and even replaced regularly to prevent the build up of soil as otherwise they become ineffective.

A minimum of 3-5 metres of barrier matting should be placed at the point of entry based on volume and level of traffic flow. Ideally this should be a combination of primary and secondary barrier systems.



Carpet Tile Maintenance Guidelines

Interface®

Rev. 04/12/21

Routine maintenance

It has been established that 80% of the soil, which can be deposited in a carpet, usually originates from outside the building, hence the provision of suitable barrier areas, for example Barricade or Foyer, at entrance points is the first line of defence against soiling.

However, carpets will still collect soil and so the following recommendations are designed to minimise the effects of soil on both the durability and appearance of your carpet.

The frequency of cleaning must be based on the specific needs of trafficked areas within your facility.

VACUUM CLEANING

An effective vacuum cleaning programme is essential for the success of any carpet maintenance plan. Grit and dirt if not vacuumed thoroughly can become an abradant that could damage fibres, if left in the carpet to build up. In addition to removing soil vacuum cleaning also enhances the appearance of the product by lifting and restoring the pile.

The use of proper equipment and techniques are critical to the success of any vacuum cleaning programme and heavy duty upright vacuums with a brushing action are recommended.

Carpet sweepers take up surface soil but do not remove soil which was worked down between the tufts. Therefore for thorough cleaning a vacuum cleaner which incorporates strong suction together with a revolving brush agitator or beater bar should be used. Height adjusters are fitted to most cleaners to allow efficient cleaning of carpets of varying constructions.

The frequency of vacuuming is determined by visual inspection but ideally should be carried out daily. Heavy traffic areas such as lobbies, entrances/exits and barrier mats - particularly those exposed to various weather conditions - may require more frequent vacuum cleaning and any maintenance programme should reflect that. Vacuuming these areas more regularly will help prevent soil from being trafficked into other areas. In areas such as Conference and Boardrooms, vacuum cleaning can be carried out when necessary, though not less than once a week.

For thorough cleaning be sure movements are slow and methodical when vacuuming

PILE LIFTING

Should be used to precondition carpets for general cleaning. This is an effective method of lifting crushed pile and loosening dry soil. Heavily trafficked areas using a cut-pile product will particularly benefit from this being carried out on a weekly basis. Loop pile products require less intensity and can be pile lifted less frequently.

For best results apply the pile lifting machine against the direction of the pile.

NB: Pile lifting should not be carried out on Elevation III, The Scandinavian Collection, Straightforward II or any other microtuft product.

Vacuum Cleaning

Pile Lifting

Carpet Tile Maintenance Guidelines

Interface®

Rev. 04/12/21

Routine maintenance

SPOT CLEANING

Localised stains caused by accidental spillage will occur. As part of the maintenance programme daily removal of spots and spills should be carried out to help maintain an acceptable appearance level between scheduled cleaning.

Immediate action should be taken when confronted with spots and spills where practically possible; this will reduce the probability of a permanent stain.

Endeavour to classify the stain – i.e. Water, Oil or a combination of both – as it is important to use those solutions and techniques which are appropriate for the specific type of stain to be treated.

When carrying out spot cleaning always remember:

DO

- Take immediate action where practically possible to avoid permanent staining
- Try to classify the stain.
- Use a clean white cloth and work from the outer edge towards the centre of the spill to prevent spreading.
- Remove excess moisture using absorbent cloths, towels etc and protect the cleaned area until the carpet is completely dry.

DO NOT

- Rub or agitate vigorously as this could distort or damage the pile and create lighter patches on the floorcovering.
- Over wet the carpet.

TREATING WATER BASED STAINS

For liquid spills, blot up as much of the liquid as possible with a clean, white cloth. If the spill is semi-solid or has hardened, gently scrape it with a spoon or spatula and then blot the spot with a damp sponge.

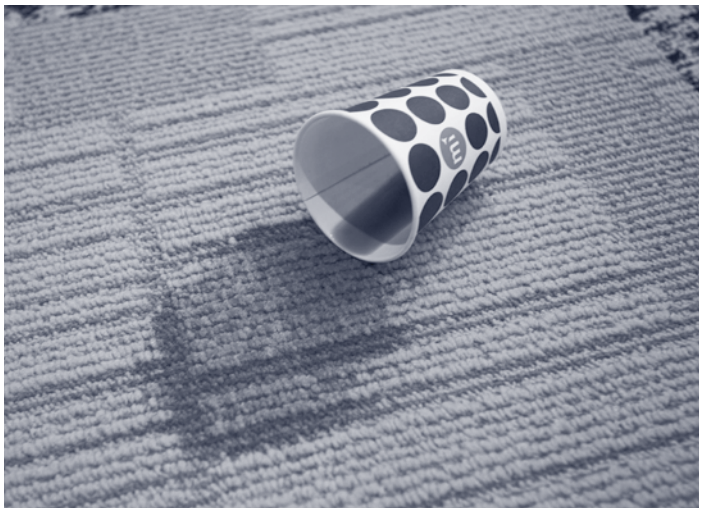
Always work the outer edge of the spot towards the centre. Never rub across a wet spill in a manner that causes the stain or contamination to be spread from the original area.

After blotting water-based spots, promptly remove the remaining residue with a small amount of dry compound. Sprinkle the compound over the spot and use a hand brush to gently agitate the compound.

Allow the area to dry (about 15-30 minutes) and then brush the compound again. If the compound seems to stick to the carpet, gently brush the area again, and then vacuum. Repeat the application if necessary. Avoid aggressive brushing as this may damage the pile.

For difficult to remove coffee, tea, juice or soft drink stains, use a recommended stain remover after spot cleaning. Apply according to the instructions and leave to dry. Repeat if necessary. Contact your local technical team for more information on recommended stain removers.

NB: Some stain removers must not be used on products which contain wool or which are susceptible to bleaching.



Routine maintenance

TREATING OIL BASED STAINS

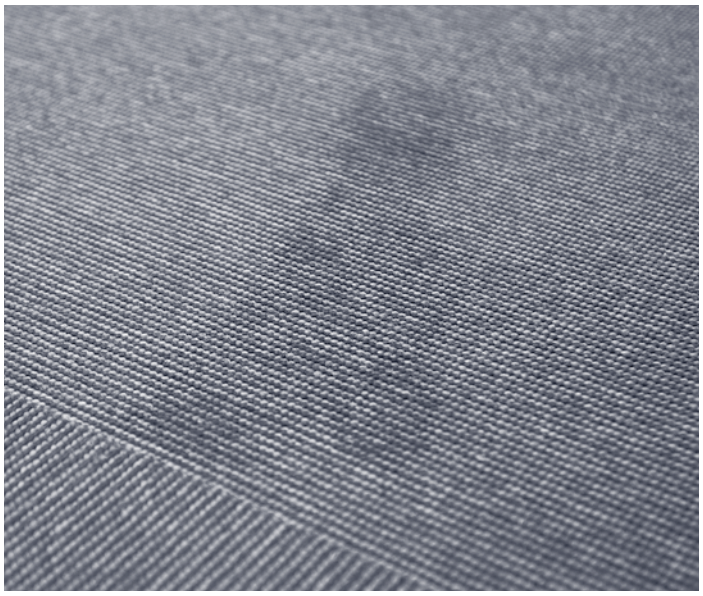
For the removal of oily stains such as paint, grease, tar, asphalt, etc, specific carpet spotters should be used.

Colourfastness should always be checked by applying the solution to an inconspicuous part of the carpet. Spray the spotter onto a clean, white cloth and press in onto the carpet.

Check for any dye transfer to the cloth. If colour transfer has occurred, then do not use the solution. Otherwise, apply the spotter sparingly to a clean, white cloth and press the cloth onto the stain.

Again, do not rub across the stain but wipe gently from the outer edge towards the centre of the stain. Repeat the procedure until the stain has been removed and after any chemical treatment, the spot should be flushed out with water to remove any excess. Protect the freshly clean area until the carpet is completely dry. Follow with an application of dry compound as explained in treating water based stain.

NB: Having a small exactor machine available can be easier to flush out any spill. Spotting of heavy spillages may not remove what is resting at the base of the pile. This can only be effectively removed by hot water extraction.



REMOVING CHEWING GUM

To remove chewing gum, spray type removers are recommended. Lightly spray chewing gum remover onto the affected area allowing the product to freeze the gum. Then use a blunt object to gently scrape off.

Care should be taken not to damage the surface by using excess force or a sharp object.

Any frozen particles should be removed as soon as possible either by gentle brushing or vacuum cleaning.

Interim Maintenance

DRY EXTRACTION

This cleaning method is easy to use and relatively non-disruptive, as areas can be used almost immediately after cleaning. Another benefit of this method is that it doesn't leave any sticky detergent residue that can re-attract soiling.

Firstly, thoroughly pile lift or vacuum clean the carpet and pre-spray with a suitable traffic lane cleaner. Then spread the dry compound onto the carpet and gently bush. Allow to dry for 30 minutes before vacuuming the particulate and soil from the carpet.

NB: Dry extraction is not suitable for Elevation III, The Scandinavian Collection, Straightforward II or any other microtuft product.

ENCAPSULATION

The encapsulation method is a recent addition to the carpet cleaning possibilities. This periodical cleaning method combines outstanding results with reduced inconvenience to the workforce.

Encapsulation cleaning is quick and easy. First, a solution with 'crystals' is sprayed onto the floor and brushed into the carpet. The crystals encapsulate the dirt. The solution evaporates quickly, after which the crystals are easily removed during daily vacuming.

The main benefits of encapsulation are the reduced water usage (90% less compared to water extraction) and short drying time (10 minutes).

NB: Encapsulation solutions are available for spot cleaning as well as periodic maintenance.

BONNET CLEANING

The hot water extraction method is generally most desirable; however the bonnet cleaning method may occasionally be needed as a supplement to allow the earlier introduction of traffic.

As with all other maintenance methods, always prepare the carpet by vacuuming or pile lifting, then apply a bonnet cleaner.

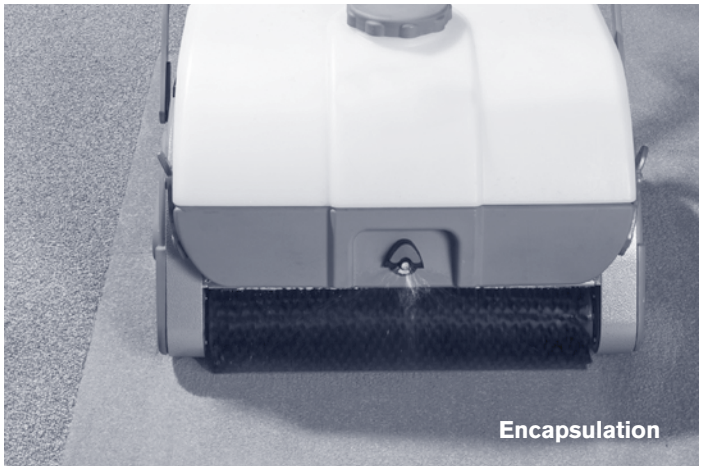
Before drying begins, agitate the area utilising a low speed (175 rpm maximum) rotary floor machine to which a 100% cotton bonnet has been attached.

Be extremely careful to cover the area thoroughly so that the carpet pile has the opportunity to be agitated in several directions to loosen attached soil and other contaminants.

After approx. 15m^2 turn the bonnet over and clean the same area if necessary. As the area is covered, soil and contaminants will accumulate in the bonnet, which should be rinsed with specific solutions, before proceeding. After the area has dried completely, the carpet should be vacuum cleaned or pile lifted.

NB 1: The bonnet should be frequently checked for cleanliness as, once soiled, it will need to be replaced before proceeding.

NB 2: Care should be taken when using this method, especially on cut-pile carpets, as improper treatment can damage the yarn and fibre.


Encapsulation


Bonnet Cleaning

Periodic Maintenance

HOT WATER EXTRACTION

Despite regular vacuum and spot cleaning the carpets appearance will in time become dulled due to an accumulation of dirt and stains that regular cleaning cannot remove. It then becomes necessary to wet clean the carpet.

Interface recommends that carpets are deep cleaned periodically using the hot water extraction process. This method is effective in removing soil and residue from carpeting. It works by injecting water and cleaning agents into the carpet and suspending the dirt in the solution which is then removed by a built-in vacuum system.

Always prepare the carpet by spot cleaning and thorough vacuum cleaning prior to hot water extraction. The method uses a hot water extraction machine filled with extraction liquid diluted according to the manufacturer's instructions.

The recommended technique is to operate the floor wand or self-contained extractor by engaging the valve or button which releases the cleaning solution, and pulling or pushing the equipment for approximately 1 to 2 metres (or at a comfortable distance). The solution valve should be released before reaching the end of the pass to ensure that all of the solution is vacuumed up.

The same area should be crossed two or three times again with the solution valve off to remove as much moisture from the carpet as possible. To continue to clean the floor, overlap approximately 5 cms into the area already cleaned and proceed as described above. In extremely soiled areas it may be necessary to make two or three additional passes with the solution valve on. Then make several additional passes with the solution valve off to remove as much moisture from the area as possible, always being careful not to over-wet the carpet.

To reduce drying times, fans may be placed on wet areas during cleaning. The carpet should be left and allowed to dry for as long as possible before use, and the procedure should be finished with a thorough pile lifting.

DO NOT

- Allow water temperatures to exceed 50°C (120°F) on the carpet.
- Allow foot traffic on the carpet until it is completely dry as it can cause fibre damage and rapid re-soiling.

Hot water extraction

Floorcare Solutions

Some commercial carpet cleaning solutions are very harsh and can damage both the surface pile of the carpet and the backings. It is therefore important to select solutions that meet the basic standards outlined here and to evaluate each product before using it.

Interface modular flooring may be maintained using a number of widely recognised and readily available carpet cleaning agents.

Generally:

- Products with pH levels over 9.5 or which contain toxic, odorous or flammable solvents should be avoided.
- Products designed for use in hot water extraction equipment should not contain oil-based defoamers (based defoamers can leave oily residues causing rapid re-soiling).
- No product should include optical brighteners (optical brighteners can adversely affect the colouration of the carpet).
- All cleaning solutions should be tested for sticky residues that may cause re-soiling. To test a solution, a small amount of concentrated detergent/cleaning solution should be poured into a small, clean glass dish. Allow the solution to air dry completely (24 hours minimum). Break up any hard residue on the surface of the glass dish and examine it. If the residue can be characterised as dry powder, dry flakes or dry crystals, the solution is acceptable. If the residue appears oily, greasy, sticky or in waxy flakes, the solution is not accept able since it would be likely to contribute to rapid re-soiling.
- Spotting solutions should be used as required and should always be flushed out with clean water after the spot has been treated.

Cleaning Solution Specifications

- Maximum pH 9.5 in dilution preferred.
- Solvents at a maximum of 10% by volume.
- No optical brighteners.

Miscellaneous Maintenance

CARPET TILE REPLACEMENT

Carpet tiles that have become badly stained or damaged can be replaced from attic/spare stock.

A damaged tile can be removed by slipping a knife edge under one corner and peeling it from the floor, if they have been installed using traditional glues or tackifiers. If they have been installed using TacTiles, simply lift a corner of the tile. To learn more about TacTiles, our sustainable installation system, please refer to our installation guide or contact your nearest sales centre.

When damaged carpet tiles are being replaced, care should be taken to ensure that the face pile of the surrounding tiles is brushed upright and that the replacement tile is fitted carefully to prevent pile fibres from becoming trapped between joints.

Carpet tiles taken from attic/spare stock are likely to have a newer appearance than the ones being replaced. If Interface random designs are used, the recommended installation method is non-directional and old and new tiles are more likely to visually integrate completely into the floor design.

In other ranges, any new tiles can be noticeable. If this is the case the new tiles should be installed in less visible areas. Any flooring product should follow Interface's recommended installation instructions.

ACCESS FLOORS

The relevant access floor manufacturer should be contacted for recommendations for carpet cleaning in relation to the methods and techniques recommended in this guide. Low-moisture methods and techniques are generally preferred.

Note: Please refer to our Installation Guide for best practices when installing carpet tiles.

Interface®

Queries

For further information please contact the Technical Department on 0800 313 4465 or visit:

www.interface.com

CLIMATE TAKE BACK™

Climate change is undeniable. And reversible. Our mission is to prove it. **Join the #ClimateTakeBack and help create a climate fit for life.**

QUANTUM FLOORINGSOLUTIONS

STAIR NOSINGS
PVC ACCESSORIES & TRIMS
TRANSITIONS

Quantum Profile Systems Ltd
Salmon Fields, Royton
Oldham, OL2 6JG, UK
tel: +44 (0) 161 627 4222 fax: +44 (0) 161 627 4333
info@quantumflooring.co.uk
www.quantumflooring.co.uk

CLEANING GUIDELINES: STAIR NOSINGS

DO NOT USE SOLVENTS!

DO NOT TRAFFIC WHILST WET!

MAKE SURE ALL CLEANING SOLUTIONS ARE REMOVED.

MATERIAL TYPE – ALUMINIUM STAIR NOSING CARRIER: S-Range, H-Range, Z-Range Q-Range

- Clean aluminium carrier with a mild detergent solution* then polish with a clean dry cloth. If required use a scouring pad to remove any ingrained dirt.
- Dry off if necessary with lint free cloth.

MATERIAL TYPE – PVC CARRIER: H-Range, Q-Range, ESN

- Clean tread with a mild detergent solution using a scouring pad to remove any heavy soiling.
- Dry off if necessary with lint free cloth.

MATERIAL TYPE – PVC TREAD: S-Range, H-Range, Z-Range Q-Range

- Both infill and nosing should be cleaned with a mild detergent solution*.
- Dry off if necessary with lint free cloth.

*Please consult recommended manufacturers guides for cleaning products.

MATERIAL TYPE – Plus-Tread TREAD

Manual

- Sweep up dust and dirt, remove large debris.
- Using a microfibre mop apply an alkaline cleaner to the floor in the correct dilution and leave for several minutes. The dilution rate depends upon how dirty the floor is and the concentrate used.
- Scrub with a deck scrubber cleaning pad attached to a multi mop handle.
- Rinse the floor with warm clean water, removing the dirty water from the floor with a microfibre mop and allow to dry. Use a double bucket to ensure that the floor is rinsed well with clean water.

Mechanical

- Vacuum up dust and dirt, remove large debris.
- Apply an alkaline cleaner in the correct dilution and leave for several minutes. (The dilution rate depends upon how dirty the floor is and the concentrate).
- Mechanically scrub using a rotary cleaning machine fitted with a cleaning pad or similar cleaning pad of the correct size.
- Wet vacuum the residue and then using a microfibre mop rinse the floor with warm clean water andvacuum dry.

MATERIAL TYPE - ECOGLO TREAD: S-Range, H-Range

1 Overview

Registered in England No: 4057656 Registered Office: Salmon Fields, Royton, Oldham, OL2 6JG, UK VAT Number: 764 5072 22

- Regular cleaning to remove built up dirt and objects will ensure the Ecoglo products will continue performing to expectation.
- The photoluminescence will continue performing even after UV exposure or exposure to moisture.

2 Floor mounted Products

- Vacuuming or brushing with a stiff bristle head (dry or wet) is often enough to keep the strips clean. The glowing strip can also be wiped clean with a (dry or wet) sponge or cloth.
- High-pressure water (but not steam cleaning) can also be used. Observation will determine if cleaning is required however a regular clean every 4 to 6 weeks or after particularly heavy use should ensure correct performance.

NOTE: Do not use highly alkaline or acidic cleaning agents. The pH of the cleaning agents should be between pH 5 and pH 12. If cleaning agents are applied at more than pH 10, the Ecoglo material should be rinsed with pH neutral (pH 6 to pH 8) solution afterwards.

Regular cleaning:
The frequency of regular cleaning method will depend on the amount of traffic, soiling levels, desired appearance, and hygiene standards.

If you require any further details please email technical@quantum-ps.co.uk

Data Sheets

winvic

winvic.co.uk

Z-RANGE STAIR NOSING

Product Description

The Z-Range is designed to be used in most commercial and public buildings. It is available in a range of gauges, from 0 to 6 mm, allowing for fixing with vinyl, linoleum and carpets or similar floor coverings.

Further technical information is available on request, please email **technical@quantum-ps.co.uk**.

Dimensions

Stock Lengths are available in 2.44 m, 2.75 m and 3.20 m with a selection of slip reducing PVC insert colours.

A free Stair Nosing measuring service is available to deliver cut to size profiles ready for fitting.

Tread Colour Range

Inc. Light Reflectance Value (LRV)

STANDARD TREAD

6	Claret	30	Jade
6	Black	33	Tangerine
10	Rustic	49	Polar Grey
10	Peat	51	Ivory
11	Dark Blue	52	Sky
11	Regency	53	Lime
11	Spruce	56	Sun
11	Granite	64	Mist
13	Poppy	67	Yellow
15	Flint	69	Photo*
16	Royal Blue	77	Desert
21	Fawn	81	White
26	Light Grey		

PLUS-TREAD

5	Carbon
9	Ruby
22	Aqua
27	Platinum
41	Sand
47	Hornet

*Photoluminescent

Range

* Photo = Photoluminescent. Colours shown here are for guide purposes only. For an exact match to your requirements, always request a sample.

Technical Data

Product Composition

Carrier: Aluminium alloy

Tread: Polyvinylchloride (PVC)
Plasticisers
Inert fillers
Flame retardants

Physical and Chemical Properties

Form: rigid

Colour: various

Odour: slight odour

Solubility: insoluble in water

Decomposition: will decompose at temperatures above 150°C

Safety Data

Please review 'Safety Data Sheet – Aluminium Stair Nosing' **on website**.

Slip Resistance

Treads tested independently by Grip Potential Ltd. Using the pendulum test (BS7976-2 Test Certificate) adhering to UKSRG, HSE and CIRIA guidelines on pedestrian slip risk assessment.

These tests confirm that all QPSL treads exceed the minimum requirement as per BS8300-2:2018 and HSE Publications.

Maintenance

1. Clean aluminium carrier with a mild detergent solution then polish with a clean dry cloth.
2. Clean tread with a mild detergent solution using a scouring pad to remove any heavy soiling.
3. Dry off if necessary with lint free cloth. Do not open to traffic whilst wet!

Allied Products

UTA Stair Angles -

View UTA on the Quantum Flooring website

UTP Stair Angles -

View UTP on the Quantum Flooring website

Installation

Drilled & Plugged Stair Nosings

1. When on-site, check step measurements with cut Stair Nosing supplied. Trim if required. Prepare step edge surfaces. They must be clean, smooth and clear of debris.
2. Fit riser floorcovering to all risers if applicable. For stone or concrete steps use Stair Nosings as template and mark screw locations on each tread. Drill and plug screw holes.
3. Apply a cartridge adhesive to Stair Nosing and tread as per the manufacturers' instructions.
4 Starting with the first Stair Nosing on the top step, press down and screw into position, then continue down the stairs. (1" no. 6 screws recommended). Fill in the drill holes with plugs and move down to the next step, repeat steps 3 and 4. Fit floorcovering to treads.

Warranty

Quantum Flooring Solutions warrants that all Stair Nosings produced and despatched from its works in Oldham, Lancashire are free from material defects and are fit for purpose when fitted strictly in accordance with the manufacturer's instructions.

This warranty is applicable to Quantum Stair Nosings that have been correctly specified, installed and maintained. Company leaflets, brochures and data sheets (hard copy and online) are available, and these give details of all necessary and relevant requirements.

Generally it is expected that Stair Nosings will outlast the surrounding floorcovering used on the treads of steps. However, this warranty does not cover general wear and tear of the products that will be consistent with the foot traffic levels of the installation. Also the company will not be held liable for any damage caused by vandalism or misuse of the products arising from acts of omission, negligence or any failure by the end user.

PRODUCT DATA SHEET – STAIR NOSINGS – Z-RANGE

Quantum Profile Systems Ltd
Salmon Fields, Royton, Oldham, OL2 6JG, UK

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info@quantumflooring.co.uk www.quantumflooring.co.uk

SAFETY DATA SHEET

CARPET & FLOORING SPRAY ADHESIVE AEROSOL 500ml

SECTION 1; IDENTIFICATION OF THE SUBSTANCES/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	CARPET & FLOORING SPRAY
Product No.	ADHB500

1.2. Relevant identified uses of the substances or mixture and uses advised against

Identified uses	Spray adhesive

1.3. Details of the supplier of the data sheet

Supplier	AFT Aerosols Ltd Unit 8, Berryhill industrial estate Berryhill road Fenton Stoke- on- Trent ST4 2NL

1.4. Emergency telephone number

+44 (0) 1782 285 700

Mon – Thurs 0730-1730: Fri 0730-1400

SECTION 2; HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)	Physical and chemical hazards	Extremely Flam. Aerosol - H222
	Human health	Carc.2 – H351
		Skin. Irrit. 2 – H315
		Eye Irrit. 2 – H319
		STOT SE 3 – H336
	Environment	Not Classified

The full text for all Hazard statements are displayed in Section 16.

2.2 Label Elements

Contains	DICHLOROMETHANE

Label in Accordance with (EC) No. 1272/2008


Signal word Danger

Hazard statements

H222	Extremely flammable aerosol.
H351	Suspected of causing cancer
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H229	Pressurized container; may burst if heated
H336	May cause drowsiness or dizziness

Precautionary Statements

P102	Keep out of reach of children
P210	Keep away from heat/sparks/open flames/hot surfaces – No Smoking.
P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P281	Use personal protective equipment as required.
P501	Dispose of contents/container in accordance with Local Regulations.

Supplementary precautionary statements

P273	Avoid release to the environment.
P280	Contains gas under pressure, may explode if heated .
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.Continue Rinsing.
P308+313	If exposed or concerned: Get medical advice/attention
P410+412	Protect from sunlight. Do not expose to temperatures Exceeding 50°C/122°F.

Supplement label information

2.3. Other hazards

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use. Do not spray on naked flame or any incandescent material – NO SMOKING.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

DICHLOROMETHANE	10-30%

CAS-No.: 75-09-2	EC No.: 200-853-9
Classification (EC 1272/2008) Carc.Cat 2 – H351 Skin Irrit Cat 2 – H315 Eye Irrit Cat 2 – H319 STOT SE Cat 3 – H336	

PETROLEUM GASES LIQUIFIED	30-40%
CAS- No.: 68476-85-7	EC No.: 270-704-2
Classification (EC 1272/2008) Flam. Gas 1- H220	

The full text for all R-Phrases and hazard statements are displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT induce vomiting. Get medical attention immediately

Skin contact

Wash the skin immediately with soap and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if any discomfort continues.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling section 2.2, and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media

Fire can be extinguished using: foam; carbon dioxide; dry powder

5.2 Special hazards arising from the substance or mixture

Unusual fire & Explosion hazards

Canisters may explode in fire.

Toxic gases/vapours/fumes of: Carbon Dioxide (CO_2). Carbon Monoxide (CO)

5.3 Advice for firefighters

Wear self contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid skin and eye contact. Ensure adequate ventilation. Avoid breathing vapours, mist or gas. Wear personal protective equipment (see section 8).

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environment Agency or other regulatory body. Do not discharge into drains or watercourses or onto the ground.

6.3 Methods and material for containment and cleaning up

Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth, and place into containers.

6.4 Reference to other sections

Wear protective clothing as described in section 8 of this safety data sheet. For waste disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Must not be exposed to direct sunlight or temperatures above 50°C.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Name	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
DICHLOROMETHANE	WEL	100 ppm(Sk)	350 mg/m3(Sk)	300 ppm (Sk)	1060 mg/m3 (Sk)	
PETROLEUM GASES LIQUIFIED	WEL	1000 ppm (Sk)	1250 mg/m3(Sk)	1250 ppm(Sk)	2180 mg/m3(Sk)	

WEL = Workplace exposure limit.

Ingredient comments

8.2 Exposure controls

Protective equipment

Appropriate engineering controls

Observe any occupational exposure limits for the product or ingredients. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Chemical splash goggles or face shield. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Hand protection

Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Nitrile rubber.

Other skin and body protection

Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Wear protective clothing.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

(a) Appearance	Canister/Aerosol.
(b) Odour	Chlorinated Hydrocarbon
c) Odour Threshold	No data available
(d) pH	No data available
(e) Melting point/freezing point	No data available
(f) Initial boiling point and boiling range	40 (°C)
(g) Flash point	Estimated at -35^{O}C
(h) Evaporation point	No data available
(i) Flammability (solid gas)	No data available
(j) Upper/lower flammability Or explosive limits	No data available
(k) Vapour pressure	No data available
(l) Vapour density	No data available
(m) Relative density	No data available
(n) Water solubility	Slightly soluble in water; soluble in chlorinated hydrocarbons
(o) Partition coefficient n-octanol/water	No data available

(p) Auto-ignition temperature	No data available
(q) Decomposition temperature	No data available
(r) Viscosity	No data available
(s) Explosive properties	No data available
(t) Oxidising properties	No data available.

9.2. Other information

Can pressure 70psi.

9.2 Other information

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No data available.

10.2 Chemical stability
Avoid heat, sparks, and flames, stable under normal conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
Avoid heat, flames and other sources or ignition. Avoid contact with: Strong oxidising agents, Strong alkalis and Strong mineral acids.

10.5 Incompatible materials
Materials to avoid
Strong acids, strong oxidising substances and strong alkalis.

10.6 Hazardous decomposition products
Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO); Carbon Dioxide (CO_2); Phosgene ($COCl_2$); Hydrogen Chloride (HCl). Slow hydrolysis with water forms hydrochloric acid.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity
LD_{50} Oral – Rat - >2,000 mg/kg

Inhalation
LD_{50} Inhalation – Rat – 52,000 mg/m³

Skin contact
Skin – Rabbit
Result: Irritating to skin – 24 hr
(Draize Test)

Eye contact
Eyes – Rabbit
Result: Irritating to eyes – 24 hr

Carcinogenicity
Carcinogenicity – Rat – Inhalation
Tumorigenic: Carcinogenic by RTECS criteria. Endocrine: Tumours
Limited evidence of carcinogenicity in animal studies.
Suspected human carcinogens
IARC: 2B – Group 2B: Possible carcinogenic to humans (Methylene Chloride)

Specific Target Organ Toxicity – Single Exposure
May cause respiratory irritation.
May cause drowsiness or dizziness

Aspiration Hazard
No data available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Not regarded as dangerous to the environment. However, contamination of the aquatic or terrestrial environments should be avoided

12.1 Toxicity

Toxicity to fish	LC50 – Pimphales promelas (fathead monnow) – 193.00 mg/l – 96 hr
	NOEC – Cyprindon variegatus (sheepshead minnow) – 130 mg/l – 96 hr
Toxicity to daphnia and other Aquatic invertebrates:	EC50 – Daphnia magna (Water f;ea) – 1,682.00 mg/l – 48 hr

12.2 Persistence and degradability
Biodegradability result <26% - Not readily biodegradeable

12.3 Bio accumulative potential
Does not bioaccumulate

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB Assessment
Contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

S

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN No (ADR/RID/ADN)	1950
UN No (IMDG)	1950
UN NO (ICAO)	1950

14.2 UN Proper Shipping Name

ADR/IMDG/AND/RID	AEROSOLS
IATA	Aerosols Flammable

14.3 Transport Hazard Class(es)

ADR/RID/ADN Class	2.1
ADR/RID/ADN Class	Class 2: Gases
ADR Label No	2.1 & 6.1
IATA	2.1
IMDG Class	2.1
ICAO Class/Division	2.1
ICAO Subsidiary Risk	6.1
ICAO TEC* No	20GSF
Air Class	2.1
UK Road Class	2.1
Transport Labels	L.Q.

14.4 Packing Group

Not Applicable

14.5 Environmental Hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

14.6 Special Precautions for user

Overland Transport

Classification Code (ADR):	5F
Special Provisions (ADR):	190,327,344,625
Limited Quantities (ADR):	1l
Excepted Quantities (ADR):	E0
Packing Instructions (ADR):	P207,LP02
Special Packing provisions (ADR):	PP87, RR6, L2
Mixed Packing provisions (ADR):	MP9
Transport Strategy (ADR):	2
Special provisions for carriage – Packages (ADT)	V14
Special Provisions for carriage – Loading, unloading and handling (ADR):	CV9, CV12
Special provisions for carriage – Operation (ADR):	S2
Tunnel Restriction Code:	D

Transport by Sea

Special Provisions (IMDG):	63,190,277,327,344,959
Limited Quantities (IMDG):	SP277
Excepted Quantities (IMDG):	E0
Packing Instructions (IMDG):	P207,LP02
Special Packing provisions (IMDG):	PP87,L2

EmS-No (Fire):	F-D
EmS-No (Spillage):	S-U
Stowage category (IMDG):	None
Stowage and Handling (IMDG):	SW1,SW22
Segregation (IMDG):	SG69
MFAG-No:	126
Air Transport	
PCA Excepted Quantities (IATA):	E0
PCA Limited Quantities (IATA):	Y203
PCA Limited Quantity max net quantity (IATA):	30KgG
PCA Packing instructions (IATA):	203
PCA max net quantity (IATA):	75Kg
CAO packing instructions (IATA):	203
CAO max net quantity (IATA):	150Kg
Special provisions (IATA):	A145,A167,A802
ERG Code (IATA):	10L
Inland Waterway Transport	
Classification Code (ADN):	5F
Special Provisions (ADN):	190,327,344,625
Limited Quantities (ADN):	1 L
Excepted Quantities (ADN):	E0
Equipment required (ADN):	PP,EX,A
Ventilation (ADN):	VE01,VE04
Number of blue cones/lights (ADN):	1
Rail Transport	
Classification Code (RID):	5F
Special Provisions (RID):	190,327,344,625
Limited Quantities (RID):	1L
Excepted Quantities (RID):	E0
Packing Instructions (RID):	P207,LP02
Special Packing provisions (RID):	PP87,RR6,L2
Mixed Packing provisions (RID):	MP9
Transport Category (RID):	2
Special Provisions for carriage – Packages (RID):	W14
Special Provisions for carriage – Loading, unloading and handling (RID):	CW9, CW12
Colis Express (express parcels) (RID):	CE2
Hazard Identification No (RID):	23

14.7 Transport in bulk according to Annex II of MARPOL and the IBC code

Not applicable

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Labelling according to Regulation (EC) No 1272/2008

The chemicals (Hazard information and packaging for supply) regulations 2009 (S.I 2009 No. 716). Control of substances hazardous to health.

Approved code of practice.

Guidance notes

Workplace exposure limits EH40.

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions.

Contains no REACH Annex XIV substances.

15.1.2 National Regulations
No additional information available.

SECTION 16: OTHER INFORMATION

General information
This product should be used as directed. For further information consult the product data sheet or contact technical services.

Information sources
This safety data sheet was compiled using current safety information supplied by distributor raw materials.

Revision comments
This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is current. Destroy all previous data sheets and if in doubt contact AFT Aerosols Ltd.

Hazard statements in full

H220	Extremely flammable gas
H222	Extremely flammable aerosol.
H351	Suspected of causing cancer
H315	Causes skin irritation.
H310	Causes serious eye irritation.
H336	May cause drowsiness or dizziness

Abbreviations

Carc 2	Carcinogen Category 2
Skin Irrit 2	Skin Irritant Category 2
Eye Irritant 2	Eye Irritant Category 2
STOT SE 3	Specific Target Organ Toxicity Single Exposure Category 3
Carc Cat 3	Carcinogen Category 3
Flam Gas 1	Flammable Gas Category 1

ISSUE: REV 4.2

REVISION DATE: AUGUST 2016

REVIEW DATE: JULY 2018

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: STYCCOBOND F41

Other means of identification:

Non-applicable

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant uses: Adhesive. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

F. Ball and Co. Ltd.
Churnetside Business Park, Station Road
ST13 7RS Cheddleton - Leek - England
Phone: +44(0) 1538 361633
msds@f-ball.co.uk
www.f-ball.com

1.4 Emergency telephone number: +44 (0) 1538 361633 Mon-Fri 08:30 - 17:00 (exc Bank Holidays)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GB CLP Regulation:

The product is not classified as hazardous according to GB CLP Regulation.

2.2 Label elements:

GB CLP Regulation:

Hazard statements:

Non-applicable

Precautionary statements:

Non-applicable

Supplementary information:

EUH208: Contains 1,2-benzisothiazol-3(2H)-one, Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
EUH210: Safety data sheet available on request.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture of polymers, dispersants and organic compounds

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 55965-84-9	**Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)** Acute Tox. 2: H310+H330; Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314; Skin Sens. 1A: H317 - Danger 	**<1 %**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

- CONTINUED ON NEXT PAGE -

SECTION 4: FIRST AID MEASURES (continued)

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

- CONTINUED ON NEXT PAGE -

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:	5 ºC
Maximum Temp.:	30 ºC
Maximum time:	6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

Non-applicable

DNEL (General population):

Non-applicable

PNEC:

Non-applicable

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+ A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply): 0 % weight

V.O.C. density at 20 ºC: 0 kg/m³ (0 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 ºC: Not available

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Appearance:	Milky
Colour:	Characteristic
Odour:	Not available
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	>100 ºC
Vapour pressure at 20 ºC:	2300 Pa
Vapour pressure at 50 ºC:	Non-applicable *
Evaporation rate at 20 ºC:	Non-applicable *
Product description:	
Density at 20 ºC:	Non-applicable *
Relative density at 20 ºC:	1.01 - 1.05
Dynamic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 40 ºC:	Non-applicable *
Concentration:	Non-applicable *
pH:	4
Vapour density at 20 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 ºC:	Non-applicable *
Solubility in water at 20 ºC:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non-applicable
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Particle characteristics:	
Median equivalent diameter:	Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:	
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
Other safety characteristics:	
Surface tension at 20 ºC:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

- CONTINUED ON NEXT PAGE -

SECTION 10: STABILITY AND REACTIVITY (continued)

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: Non-applicable
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	LD50 oral	64 mg/kg	Rat
CAS: 55965-84-9	LD50 dermal	87.12 mg/kg	Rabbit
	LC50 inhalation	0.33 mg/L (4 h)	Rat

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 55965-84-9	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

- CONTINUED ON NEXT PAGE -

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport (ADR/RID,IMDG,IATA)

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

The Control of Major Accident Hazards Regulations 2015:

Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation:

Acute Tox. 2: H310+H330 - Fatal in contact with skin or if inhaled.
Acute Tox. 3: H301 - Toxic if swallowed.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Classification procedure:

Non-applicable

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

- END OF SAFETY DATA SHEET -

STYCCOBOND F41

Carpet Tile Tackifier

Scan to view the product demonstration video

PRODUCT DATA

INTRODUCTION

STYCCOBOND F41 is a solvent free acrylic polymer emulsion adhesive. It is designed to provide a permanently tacky film which prevents 'loose-lay' carpet tiles from moving under normal traffic but enables them to be lifted and replaced easily when required. It is non-flammable, is protected against biodegradation, is suitable for use over normal underfloor heating installations, is resistant to plasticiser migration and will withstand normal wet cleaning techniques.

STYCCOBOND F41 can be used for securing a wide range of dimensionally stable "lay flat" carpet tiles backed with bitumen/felt, non-woven fabric, PVC and other polymer backings.

See the Recommended Adhesives Guide for details of specific floorcoverings.

Tested in accordance with IMO FTP Code procedures, STYCCOBOND F41 is in compliance with the Merchant Shipping (Marine Equipment) Regulations 2016, S.I. 2016/1025, and the Marine Equipment Directive 2014/90/EU, and approved for use as an adhesive for flooring applications only. USCG Approval No(s): 164.112/1121/WCL MER0406, 164.112/ERO2812/MED0406

STYCCOBOND F41 can be applied to STOPGAP smoothing underlayments, structurally sound, smooth, dry subfloors of concrete and sand/cement screed, plywood, flooring grade chipboard and hardboard.

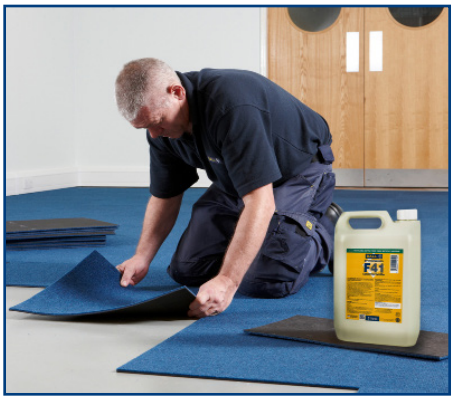
STYCCOBOND F41 can also be applied to non-absorbent subfloors such as STOPGAP waterproof surface membranes, STOPGAP ISOLATOR, Raised Access Flooring Panels, Steel, Terrazzo, Granolithic, Linoleum and Vinyl floorcoverings.

Sound flooring grade asphalt must be skimmed with a minimum of 3mm of the appropriate STOPGAP smoothing underlayment.

For details on other subfloors, contact our Technical Service Department.

TECHNICAL INFORMATION

Colour	White
Consistency	Viscous Liquid
Coverage Rate (Approx.)	8 - 22m² per litre with a roller depending on the absorbency of the subfloor and the backing of the carpet tile.
Drying Time (Approx.)	20 minutes depending on temperature, humidity and absorbency of the subfloor.



FEATURES

- Prevents loose-lay tiles from moving
- Suitable with underfloor heating
- Allows individual, damaged or worn tiles to be quickly removed or replaced

STANDARDS

All aspects of the installation of floorcoverings should be in accordance with the requirements of the relevant British Standard Code of Practice i.e. BS 5325 (Installation of textile floorcoverings) and supplementary specifications.

PACKAGES

20 litre bottle
15 litre bucket
5 litre bottle

HOW MUCH MATERIAL?

PACK SIZE	APPLICATION	COVERAGE PER UNIT
20 litres	Roller	160 - 440m²
15 litres	Roller	120 - 330m²
5 litres	Roller	40 - 110m²

Note: Coverage rates will depend on the condition and absorbency of the subfloor and the application pattern.

BALL
F. Ball and Co. Ltd.

SURFACE PREPARATION

Proper subfloor preparation is essential for the correct installation of any floorcovering. Subfloors must be structurally sound, smooth, dry (<75% RH) and free from laitance and any contaminants which will affect adhesion. Use STYCCOCLEAN C140 for removing grease, oil, polish, soap etc. from non-absorbent substrates.

Concrete and sand/cement screeds must be fully cured and any laitance or surface treatments must be removed. The temperature of the floor must be maintained above 10^{0}C throughout the application and drying of the adhesive. Underfloor heating must be off for at least 48 hours before, during and after application.

For detailed information, request the F. Ball Subfloor Preparation Guide.

DAMP SUBFLOORS

The Relative Humidity (RH) of the subfloor can be measured using the F. Ball Digital Hygrometer. Where the RH value is greater than 75% the appropriate STOPGAP waterproof surface membrane should be applied.

SMOOTHING

To ensure a level surface on which to adhere to, uneven and irregular surfaces should be suitably prepared using the appropriate STOPGAP smoothing underlayments.

PRIMING

Highly absorbent subfloors such as sand/cement screeds and plywood etc. may cause rapid drying of the adhesive, thus reducing the open time. Use STOPGAP P131 diluted 4 parts of water and stir until thoroughly dispersed. This should be allowed to dry thoroughly before proceeding with the installation.

Dry and suitably prepared calcium sulphate screeds e.g. anhydrite must be primed with STOPGAP P121 - refer to STOPGAP P121 data sheet for further information.

ADHESIVE APPLICATION

Using the brush or roller, apply the adhesive evenly to the subfloor, over the whole area to be covered. Allow to dry to a clear, tacky film before placing the carpet tiles in position, pressing firmly from the centre outwards and paying particular attention to the edges. When used over a raised access panel system, the tackifier should be poured into a tray and applied carefully using a roller to avoid excess adhesive seeping between individual panels and achieve the recommended coverage figure.

Installation of PVC backed carpet tiles over vinyl floorcoverings
Apply STYCCOBOND F41 by brush or roller in bands to the back of the tile, avoiding the edges. Allow to dry before placing the tile in position.

PRECAUTIONS

Do not place the tiles before the adhesive has dried to a clear film. This can result in a permanent bond being formed. In heavy traffic areas e.g. where concentrated stiletto heel or heavy wheeled traffic is anticipated, permanently bonding tiles has been found to help extend their life. Consult the tile manufacturer for advice in these situations.

Extending the coverage rate beyond those quoted can reduce adhesion properties of the product.

See the F. Ball Recommended Adhesives Guide for suitable permanent adhesives if required.

TOOLS

STYCCOBOND Paint Roller or medium stiff broom.

Tools should be cleaned with warm soapy water while the adhesive is still wet.

STORAGE

Store between 5°C and 30°C.
Protect from frost.

SHELF LIFE

12 months in unopened containers stored under good conditions.

HEALTH AND SAFETY ADVICE

This product is not classified. A Safety Data Sheet is available for the professional user on request.

These can be found at www.f-ball.com alternatively these can be obtained from the point of purchase or from F. Ball and Co. Ltd. at the address below.

Site conditions vary, to ensure this product is suitable and to confirm this data sheet is current please contact our Technical Service Department.

For further information about F. Ball products or more detailed technical assistance, please contact:

F. Ball and Co. Ltd.

Churnetside Business Park
Station Road, Cheddleton, Leek
Staffordshire ST13 7RS
United Kingdom

Tel: +44 (0) 1538 361633
Email: mail@f-ball.co.uk

www.f-ball.com

nuway® tuftiguard HD TECHNICAL **SPECIFICATIONS**

Tuftiguard HD plain

Tuftiguard HD classic

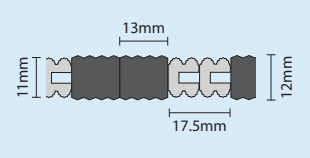
Tuftiguard HD design

	Nuway 12mm	Nuway 17mm
Maximum length per module	2500mm	2500mm
Maximum width per module	750mm	750mm
Maximum weight per module	23kg/m²	23kg/m²
Depth	12mm	17mm
Scraper bar material	Aluminium	Aluminium
Construction	Closed	Closed
Number of wiper strips	2	2
Total weight (kg/m²)	17	24
Max static load (kg/cm²)	900	900
Dynamic load (kg) 2 wheels, 80mm 20,000 passes	350	350
Frames	A selection of recessed matwell frames are available	A selection of recessed matwell frames are available
Ramp frame model	ARF 50	ARF 70
Manufacturing method	Entrance flooring system with scraper bars and rubber wiper strips	Entrance flooring system with scraper bars and rubber wiper strips
Wiper design	Plain, natural fibres, coloured fibres	Plain, natural fibres, coloured fibres
Pile / wiper material	100% polyamide BCF	100% polyamide BCF

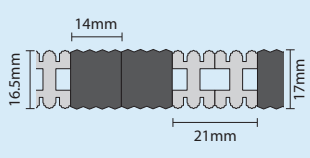
To find out more about how our Nuway ranges help to create better environments, please visit our web site and download the environmental data sheets **www.forbo-flooring.co.uk/cbedownloads**

nuway® tuftiguard HD TECHNICAL **SPECIFICATIONS**

Tuftiguard HD plain – dimensions

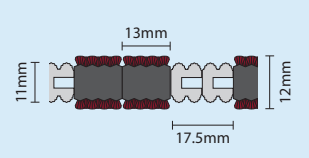


12mm double closed

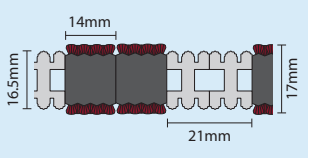


17mm double closed

Tuftiguard HD classic/design – dimensions



12mm double closed



17mm double closed

All dimensions are approximate.

Scraper bars
Universal

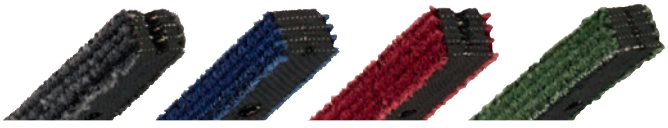
Aluminium

Wiper bar options
Plain and Classic

Unbuffed (Plain)

Buffed (Classic)

Wiper bar options
Design



Charcoal Ocean Scarlet Willow

For more detailed information on the dimensions of our Nuway Tuftiguard Entrance Systems, please visit **www.forbo-flooring.co.uk/downloads**, or contact our Entrance Flooring Systems Customer Service team on **01773 740 688.**

Transformation

Product Transformation **Colour** 1628013 Steppe

Installation Method

Non Directional

Interface European Manufacturing BV reserve the right to change or modify specifications.

Product Specifications

Product Number	1628
Product Construction	Tufted Patterned Structured Loop Pile
Yarn System	100% Solution Dyed Nylon contains recycled content
Standard Backing	Graphlex®
Optional Backing(s) (Learn more)	ReCushion Bac®,SONE®,CircuitBac Green
Size – Packaging	50 x 50 cm – 4 m² Box
Pile Yarn Weight	576 g/m² ± 5%
Total Weight	3760 g/m² ± 5%
Pile Height	3.3 mm +15% / - 10%
Total Thickness	6.3 mm ± 0.5 mm
Gauge – Ends per 10 cm	1/12 - 47.2
Tufts per m²	167,560/m² ±5%

Performance Specifications

Wear Classification	EN 1307 33 Heavy Contract					
Castor Chair Rating	≥2.4 (EN 985) Continuous Use					
Flammability	(EN ISO 9239-1) Euroclass Bfl-s1 (EN 13501-1)					
Light Fastness	≥6 (ISO 105-B02)					
Light Reflectance Value (LRV)	LRV – L value		LRV – Y value			
	34.4		8.2			
Dimensional Stability	≤0.2% (ISO 2551/EN 986)					
Impact Sound Insulation ΔL_w EN ISO 10140-3	25 dB					
Rating of Sound Absorption (α_w) EN ISO 11654	0.20					
Sound Absorption (α_s) EN ISO 354	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
	0.01	0.05	0.08	0.22	0.34	0.44

Environmental Specifications

Total Recycled Content	51.1%
Pre-Consumer (Total)	49.6%
Post-Consumer (Total)	1.5%
Yarn Recycled Content	75%
Pre-Consumer (Yarn)	65%
Post-Consumer (Yarn)	10%
Indoor Air Quality	GUT Prodis ID FB53AAD0 M1 Emission Certification - 2 French A+ Danish Indoor Climate GLP 9819 GUI Standard
Potential Green Building Contribution	
BREEAM (UK/International)	View potential BREEAM contribution
BRE Green Guide Ratings	

Commercial	Domestic	Education	Health	Retail (Fashion)	Retail (Durability)
A	A	A+	A+	A+	A

LEED (US/International)	View Potential Leed Contribution
HQE (France)	View Potential HQE Contribution
DGNB (Germany)	View Potential DGNB Contribution
Environmental Product Declaration	wc_eu-epd-int-20180117-transformation-cbc1-en

Carbon Footprint	
Full Life Cycle Carbon Footprint	According to EPD or EPD calculation method
Raw Materials and Production	9.25 kg CO_2 eq./m²
Delivery and Installation	0.65 kg CO_2 eq./m²
Use (10 Years)	3.43 kg CO_2 eq./m²
End of Life (Waste to Energy)	4.9 kg CO_2 eq./m²
Total (10 Years Lifetime)	18.23 kg CO_2 eq./m²
Carbon Neutral Floors™	Standard
Installation Impacts	
Installation Waste	In a typical installation (rectangular building, installed before walls) using the installation method below:
	Non-directional – 1-2%
	For reference: 2 m wide broadloom typically generates 7-10% installation waste
TacTiles®	Optimised for glue-free installation with TacTiles® connectors with virtually zero VOCs
End of Life Options	
ReUse	Can be cleaned and reused in a non-critical location to extend its useful life.
Recycling	Can be returned through the Interface ReEntry scheme and be reused as raw material in new carpet tiles.
Waste to Energy	Can be incinerated in appropriate waste to energy plant.
Technical Information	
Installation	See recommended Interface installation guidelines
Maintenance	See recommended Interface maintenance guidelines
Warranty	15 years
Manufacturing Location	ISO 9001, 14001 & 45001 Certified Facilities in Europe

Performance Qualifications

25 dB | 0.20 | ≥6 | 0.081 m² K/W | ≥2.4

Certifications

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 2015/830

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier:

Product Name :	Flexyfix
Registration Number REACH:	Not applicable (mixture)
Product type REACH:	Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against:

1.2.1 Relevant identified uses

Sealing compound, Adhesive

1.2.2 Uses advised against

No uses advised against

1.3 Details of the supplier of the safety data sheet:

Supplier of safety data sheet

Rewmar Limited
51 Somers Road
Rugby
CV22 7DG
Tel.: +44 333 800 1966
Fax: +44 333 800 1967

1.4 Emergency telephone number

01926 633823 (office hours only 9.00 – 17.00 hrs)

Section 2. Hazards Identification

2.1 Classification of substance or mixture:

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2 Label elements:

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.3 Other hazards:

No other hazards are known

Section 3. Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name (REACH Registration No)	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
trimethoxyvinylsilane 01-2119513215-52	2768-02-7 220-449-8	1%<C<5%	Flam. Liq. 3; H226 Acute Tox. 4; H332	(1)(10)	Constituent
hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics 01-2119552497-29		1%<C<10%	Asp. Tox. 1; H304	(1)(10)	Constituent

(1) For H-statements in full: see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

Section 4. First aid measures

4.1 **Description of first aid measures:**

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

No effects known.

After eye contact:

Slight irritation.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

4.3 Indication of any immediate medical attention and special treatment needed:

If applicable and available it will be listed below.

Section 5. Fire-fighting measures

5.1 Suitable extinguishing media:

Adapt extinguishing media to the environment

5.2 Unsuitable extinguishing media

None

5.3 Special exposure hazards

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours, hydrogen chloride.

5.4 Instructions:

No specific fire fighting instructions required

5.5 Special protective equipment for firefighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain leaking substance. Use appropriate containment to avoid environmental contamination..

6.3 Methods and material for containment and cleaning up:

Cover spill with inert material, e.g.: sand, earth, vermiculite. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water.

6.4 Reference to other sections:

See heading 13.

Section 7. Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Observe normal hygiene standards

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Store in a dry area. Store at room temperature. Meet the legal requirements. Max. storage time: 2 year(s).

7.2.2 Keep away from:

No data available.

7.2.3 Suitable packaging material:

Synthetic material, polyethylene

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer .

Section 8. Exposure controls/Personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL – Workers

trimethoxyvinylsilane

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	27.6 mg/m³	
	Long-term systemic effects dermal	3.9 mg/kg bw/day	
Effect level (DNEL/DMEL)	**Type**	**Value**	**Remark**
		No data available	

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
		No data available	

DNEL/DMEL - General population

trimethoxyvinylsilane

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	**Long-term systemic effects inhalation**	**18.9 mg/m³**	
	Long-term systemic effects dermal	**7.8 mg/kg bw/day**	
	Long-term systemic effects oral	**0.3 mg/kg bw/day**	

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
		No data available	

PNEC

trimethoxyvinylsilane

Compartments	Value	Remark
Fresh water	**0.4 mg/l**	
Marine water	**0.04 mg/l**	
Aqua (intermittent releases)	**2.4 mg/l**	
STP	**6.6 mg/l**	
Fresh water sediment	**1.5 mg/kg sediment dw**	
Marine water sediment	**0.15 mg/kg sediment dw**	
Soil	**0.055 mg/kg soil dw**	

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Compartments	Type	Value	Remark
		No data available	

8.1.5 Control banding

If applicable and available it will be listed below

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Respiratory protection not required in normal conditions.

b) Hand protection:

Gloves.

c) Eye protection:

Eye protection not required in normal conditions.

d) Skin protection:

Protective clothing

8.2.3 Environmental exposure controls

See headings 6.2, 6.3 and 13

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Paste
Odour	Barely perceptible
Odour threshold	No data available
Colour	White / Black
Particle size	No data available
Explosion limits	Not applicable
Flammability	Non combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	Not applicable
Vapour pressure	No data available
Solubility	No data available
Relative density	1.50 @ 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	Not applicable
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with explosive properties
pH	No data available

9.2 Other Information

Absolute density 1500 kg/m³ @ 20 °C

Section 10. Stability and reactivity

10.1 Reactivity:

No data available

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

No data available

10.5 Incompatible materials:

No data available

10.6 Hazardous decomposition products:

Upon combustion: CO and CO2 are formed and small quantities of nitrous vapours, hydrogen chloride and formation of metallic fumes.

Section 11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:

Flexyfix

No (test)data on the mixture available

Judgement based on ingredients

trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Exposure Time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	7120 mg/kg bw 7236 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	3259 mg/kg bw 3880 mg/kg bw	24h	Rabbit (male/(female)	Converted value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	16.8 mg/l	4h	Rat (male/female)	Experimental value	

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Parameter	Method	Value	Exposure Time	Species	Value determination	Remark
Oral	LD50	OECD 401	> 5000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	OECD 402	> 3160 mg/kg bw	24h	Rabbit(male/female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 5266 mg/m^3 air	4h	Rat (male/female)	Experimental value	

Conclusion

Not classified for acute toxicity

Corrosion/irritation:

Flexyfix

No (test)data on the mixture available

Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Route of exposure	Result	Method	Exposure Time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405	24h	1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating		24h	24; 48; 72 hours	Rabbit	Experimental value	

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method	Exposure Time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405	24h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	Other	24h	24; 48; 72 hours	Human	Experimental value	

In the light of practical experience, the classification for this mixture is less stringent than the one based on the calculation set out

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation:

Flexyfix

No (test)data on the mixture available

Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Route of exposure	Result	Method	Exposure Time	Time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48hours	Guinea pig (male/female)	Experimental value	

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method	Exposure Time	Time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406	24h	24; 48 hours	Guinea pig (female)	Read-across	
Skin	Not sensitizing	Other	216h	24; 48 hours	Human (male/female)	Experimental value	

Conclusion

Not classified as sensitizing for inhalation
Not classified as sensitizing for skin

Specific target organ toxicity

Flexyfix

No (test)data on the mixture available
Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure Time	Species	Value determination
Oral (stomach tube)	LOAEL	OECD 422	62.5 mg/kg bw/day	Thymus	Weight reduction	6 - 8 weeks (daily)	Rat (female)	Experimental value
Inhalation (vapours)	LOAEC	Subchronic toxicity test	100 ppm		Change in urine composition	14 weeks (6h/day, 5 days/week)	Rat (male)	Experimental value
Inhalation (vapours)	NOAEC	Subchronic toxicity test	10 ppm		No effect	14 weeks (6h/day, 5 days/week)	Rat (male/(female)	Experimental value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure Time	Species	Value determination
Oral	NOAEL	Equivalent to OECD 408	≥ 5000 kg/kg bw/day		No effect	13 weeks (daily)	Rat (male/(female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	> 10400 mg/m³ air		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/(female)	Read-across

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

Flexyfix

No (test)data on the mixture available
Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Result	Method	Test Substrate	Effect	Value determination
Positive with metabolic activation, positive without metabolic activation	OECD 473	CHL/IU cells	Chromosome aberrations	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Result	Method	Test Substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value

Mutagenicity (in vivo)

Flexyfix

No (test)data on the mixture available
Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Result	Method	Exposure Time	Test Substrate	Organ	Value determination
Negative (inhalation vapours)	OECD 489	3 days	Rat (male/female)		Experimental value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Result	Method	Exposure Time	Test Substrate	Organ	Value determination
Negative	Equivalent to OECD 483	8 weeks (6h/day, 5 days/week)	Mouse (male)		Read-across
Negative	Equivalent to OECD 475		Rat (male/female)		Read-across
Negative	Equivalent to OECD 474		Mouse (male/female)		Read-across

Conclusion
Not classified for mutagenic or genotoxic toxicity

Carcinogenicity
Flexyfix
No (test)data on the mixture available
Judgement is based on the relevant ingredients
Conclusion
Not classified for carcinogenicity

Reproductive toxicity
Flexyfix
No (test)data on the mixture available
Judgement is based on the relevant ingredients

trimethoxyvinylsilane

	Parameter	Method	Value	Exposure Time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	EPA OTS 798.4350	100 ppm	10 days (6h/day)	Rat (female)	No Effect		Experimental value
Maternal toxicity	NOAEL	EPA OTS 798.4350	25 ppm	10 days (6h/day)	Rat (female)	No Effect		Experimental value
	NOAEL (P)	OECD 422	1000 mg/kg bw/day	≤ 43 days	Rat (male)	No Effect		Experimental value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method	Value	Exposure Time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	>1000 mg/kg bw/day	10 days	Rat	No Effect		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416	≥1500 ppm	13 weeks (6h/day, 5 days/week)	Rat (male/female)	No Effect		Read-across
	NOAEC	Equivalent to OECD 421	≥300 ppm	8 weeks (6h/day, 5 days/week)	Rat (male/female)	No Effect		Read-across
	NOAEL	Equivalent to OECD 422	>1000 mg/kg bw/day	6 weeks (daily)	Rat (male/female)	No Effect		Read-across

Conclusion CMR
Not classified for reprotoxic or developmental toxicity

Toxicity other effects
Flexyfix
No (test)data on the mixture available

Chronic effects from short and long-term exposure
Flexyfix
No effects known

Section 12. Ecological information

12.1 Toxicity:

Flexyfix

	Parameter	Method	Value	Duration	Species	Test Design	Fresh/salt water	Value determination
Acute toxicity crustacea	EC50	OECD 202	706 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value of similar product
Acute toxicity invertebrates	EC50	OECD 201	731 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value of similar product
Toxicity algae and other aquatic plants	NOEC	OECD 201	250 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value of similar product

Judgement of the mixture is based on test data on the mixture as a whole

trimethoxyvinylsilane

	Parameter	Method	Value	Duration	Species	Test Design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		191 mg/l	96 h	Oncorhynchus mykiss		Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	EU Method C.2	168.7 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50		>89 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
	NOEC		>89 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 211	28.1 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	EU Method C.3	> 1000 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; GLP
Toxicity aquatic microorganisms	EC50	Other	43 mg/l	5.75 h	Pseudomonas putida	Static system	Fresh water	Read-across; GLP

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method	Value	Duration	Species	Test Design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 1028 mg/l	96 h	Scophthalmus maximus			Experimental value
Acute toxicity invertebrates	LC50	Other	> 3193 mg/l	48 h	Acartia tonsa			Experimental value
Toxicity algae and other aquatic plants	ErC50	ISO 10253	> 10000 mg/l	72 h	Skeletonema costatum			Experimental value
Long-term toxicity fish	NOEL		> 1000 mg/l	28 day(s)	Oncorhynchus mykiss			QSAR
Long-term toxicity aquatic invertebrates	NOEL		> 1000 mg/l	21 day(s)	Daphnia magna			QSAR
Toxicity aquatic microorganisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2 Persistence and degradability:

trimethoxyvinylsilane

Biodegradation water

Method	Value	Duration	Value Determination
OECD 301F: Manometric Respirometry Test	51 %; GLP	28 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value Determination
	0.56 day(s)	500000 /cm^3	Calculated value

Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value Determination
OECD 111: Hydrolysis as a function of pH	< 2.4 h; pH = 7	Primary degradation	Weight of evidence

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Biodegradation water

Method	Value	Duration	Value Determination
OECD 306: Biodegradability in Seawater	74 %	28 day(s)	Experimental value

Phototransformation water (DT50 water)

Method	Value	Conc. OH-radicals	Value Determination
	No effect		

Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value Determination
	No effect		

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

Flexyfix
Trimethoxyvinylsilane

Log Kow

Method	Remark	Value	Temperature	Value Determination
KOWWIN	Calculated	**-2**	20 °C	QSAR

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Log Kow

Method	Remark	Value	Temperature	Value Determination
	No data available			

Conclusion

Contains bioaccumulative component(s)

12.4 Mobility in soil:

Trimethoxyvinylsilane

(Log) Koc

Parameter	Method	Value	Value Determination
	No data available		

Volatility (Henry's Law constant H)

Method	Method	Temperature		Value Determination
8.72E-5 atm m^3/mol		25 °C		Estimated value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	8.3%		83.2%	7.4%	1%	Calculated value

Conclusion

Contains component(s) that adsorb(s) into the soil

12.5 Results of PBT and vPvB assessment:

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

3-(trimethoxysilyl)propylamine

Ground water

Ground water pollutant

Section 13. Disposal considerations

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 10 (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment..

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 02 (plastic packaging).

Section 14. Transport information

Road (ADR)

14.1 UN number:

Transport	Not subject
UN number	

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packaging	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

Rail (RID)

14.1 UN number:

Transport	Not subject
UN number	

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packaging	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

Inland waterways (ADN)

14.1 UN number:

Transport	Not subject

UN number	

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packaging	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

Sea (IMDG)

14.1 UN number:

Transport	Not subject
UN number	

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packaging	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

Air (ICAO-TI/IATA-DGR)

14.1 UN number:

Transport	Not subject
UN number	

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packaging	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

European legislation:

Volatile organic compounds (VOC) 3.81% - 3.87% (<58.24g/Ltr)

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

Section 16. Other information

Full text of any H-statements referred to under headings 2 and 3:
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.

ADI Acceptable daily intake
AOEL Acceptable operator exposure level
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC50 Effect Concentration 50 %
ErC50 EC50 in terms of reduction of growth rate
LC50 Lethal Concentration 50 %
LD50 Lethal Dose 50 %
NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration
OECD Organisation for Economic Co-operation and Development
PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process
vPvB very Persistent & very Bioaccumulative

The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances.

Flexyfix Technical Data Sheet

Product:
Colour: White
Packaging: 290 Ml cartridge

Flexyfix is a single component, ready to use, elastic adhesive and sealant suitable for bonding most materials to almost any surface, wet or dry. Also suitable for use over underfloor heating
This product is suitable for use in high rise apartments including stairwells and communal areas

Technical data:

Base	MS Polymer
Curing system	Moisture curing
Consistency	Paste
Colour	White
Specific gravity (g/cm³)	Approx. 1.5g/mL
Elongation at break	>200%
Open time at 21°C and 50% R.H	Approx. 5 minutes*
Adjustability time at 21°C and 50% RH	Approx. 5 minutes*
Set to load bearing	Approx. 20 minutes*
Tensile strength at break	> 3.5N/mm²
Temperature resistance	-40°C to +90°C (cured)
Durability against ageing	Excellent
Total solids content	100% (solvent free)
Application rate	Dependent upon bead size**

* This can vary according to environmental circumstances such as temperature, humidity, substrate etc.
** See application rates below

Characteristics:

- One component,
- Ready to use
- Easy to apply,
- Solvent and water free
- Interior and exterior application
- Waterproof
- High initial grab
- Rapid build up of bond strength
- Very fast curing
- High final bond strength (according to DIN 281)
- Permanently Elastic
- Suitable for underwater bonding applications
- Dissipates shear forces
- Easy to remove residues
- Overpaintable with water based paints. (always test before full application)
- Weather and UV resistant
- Temperature resistant
- No hazard labelling required

Applications:

Flexyfix is suitable for use in almost all cases where a strong and fast bond is required. It can be used on all clean, sound and dust free surfaces even if they are damp or wet, which makes it ideally suited to both indoor and outdoor bonding and sealing applications.
It can be used on both porous and non-porous surfaces. Use on non-porous surfaces may lead to a slightly longer curing period.

Suitable materials include:
Glass
Marble
Granite
Sanitary Ware
Bricks
Stone
Wood
MDF
Chipboard
Metal
Concrete
Fibreglass
Polystyrene
Plasterboard
Glazed Surfaces
Hard Plastics and Much More.

Note: This product is not suitable for use on PE, PP, Teflon, Copper Alloys or Bituminous surfaces

Application:
The adhesive should be applied by means of a caulking gun with a ratio of 18:1

Application Rate **
Linear metre approximations
3mm bead will give 41 linear meters
5mm bead will give 15 linear metres
8mm bead will give 5.7 linear metres
10mm bead will give 3.7 linear metres

Surface preparation:
The surface should be sound, clean and free of any contaminants

The adhesive should be applied in a bead by means of an applicator gun. The bead size will be determined by the particular use. For example: a 3mm wide bead will be sufficient to fix carpet gripper rods to concrete/screed but a 10mm bead may be required to fix wood flooring or wall cladding.

Apply the adhesive to one surface only and then press firmly with a sliding motion to ensure good adhesive contact. The high initial grab will generally mean that no mechanical fixings are required but in certain applications it is advisable to use a mechanical fixing.
Such instances being overhead applications.

Temporary support may be required for very heavy items until the adhesive has dried.

Shelf Life:
12 months in unopened packaging stored in a cool dry place at temperatures between +5°C and +25°C

Cleaning:
Rewmar wipes immediately after application.
Tools can be cleaned prior to curing with Rewmar wipes or mechanically after curing

Application Temperature:
0°C and +35°C. The cure time will be extended when the temperature is below or around 5°C

Environmental clauses
Leed regulation:

Flexyfix conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED® 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Rewmar Limited 51 Somers Road Rugby CV22 7DG UK
Tel.: 0333 800 1966 Fax: 0333 800 1967 www.flexyfix.co.uk

Completion Report

*Please note * for us to accept your manual all of the be below must be complete along with the correct order*

	Question from the Manuals team:	Result (Yes/No)	Comment (Please add page numbers on where this information can be found)
Scope of works	Have you included Job Number and Project name?	Yes	
	Have you included scope of works?	Yes	
	Have you included Site address and your address?	Yes	
	Have you included list of locations of the installed equipment?	Yes	
Certificates/ Warranties & Test Certificates	Have you included Testing and Commissioning?	Yes	Warranties
Cleaning and Maintenance Table	Have you inserted all equipment on to the maintenance and cleaning table? (The applied Surface treatment)	Yes	
Data Sheets	Have you included Technical data sheet?	Yes	
	Does your data sheets have the same reference to the cleaning and maintenance table?	Yes	
	Have you included Product Specific Equipment/ Materials Data Sheeets?	Yes	
	Have you included Hazardous Information Data Sheets?	No	Not applicable to our works
	Have you included Operation Instructions?	No	Not applicable to our works
	Have you included As Built Asbestos Report/ Fire Tronic Report?	No	Not applicable to our works
	Are these PDFS Final?	Yes	
	Have you bookmarked your PDF?	Yes	
	Have you included only job specific information to all of the above?	Yes	

*** Send all of the above (to the correct member of the manuals team for that project) via Union Square***

Drawings	Have you sent As Built / Final Construction Drawings to the Design Manager?	No	Not applicable to our works

Completed by	Susan Jordan	
Date	16 April 2024	