# **Sealants (Phoenix Sealants)**

Contents

### **Phoenix Sealants**

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# **Scope of Works**



# PHOENIX SEALANTS LTD

P23012
WINGATES
PLOT 3
BOLTON

### Works undertaken / supplied (The Scope) Joint Sealing(Mastic Pointing)

- · Schedules of equipment provided N/A
- · Plant descriptions N/A
- · Handling, loading & installation instructions N/A
- · Operating directions N/A
- · Maintenance instructions, regimes and schedules N/A
- · Dismantling and or disposal directions N/A
- · Spares and consumables details inc. sources N/A
- · COSHH data where applicable Attached
- · Serial No's. and specific identification codes N/A
- · Cleaning requirements Self cleaning
- · Drawings and/or wiring diagrams N/A
- · Associated test and calibration certificates N/A
- · Technical literature Attached

### Materials used:

Internal Concrete floor slab: Arbomeric Mp20

External Concrete floor slab: Arbomeric Mp20

Internal silicone to office areas: Arbosil LM

Internal silicone to toilets/tiled areas: Arbosil HM & Arbosil LM

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# **Certificates/Warranties/Guarantees**

N/A



**Cleaning and Maintenance Regimes** 

N/A



# **Data Sheets**



# **ARBOMERIC MP20**

# ARBO

# ARBOMERIC MP20

Arbomeric MP20 is a one part high modulus modified polymer sealant which cures on exposure to moisture vapour to form a tough but elastic rubber.

### MAIN APPLICATIONS

Arbomeric MP 20 is recommended for use in many forms of construction including structural joints in heavy cladding, structural movement joints in floors and floor joints in heavily trafficked areas.

**NB** Not recommended for joints in lightweight cladding and swimming pools.

Is over-paintable once fully cured; pre-use tests are advised to demonstrate compatibility with individual paints.

### APPLICATION INSTRUCTIONS

### Joint preparation

The joint surfaces must be clean, dry and free from all contamination. The surfaces should be degreased using the appropriate Arbo Cleaner. Primers may be required on some substrates. It is recommended that Adshead Ratcliffe Technical Services Department should be consulted and advice obtained with regard to the choice of primer for specific purposes.

### Joint Backing

Where applicable, appropriate joint filler e.g. closed cell polyethylene foam, should be used to provide the correct joint depth.

All joint preparation, priming, and sealant application should be carried out in accordance with BS 8000 Part 16, the British Standard for the sealing of joints in buildings using sealants.

### Application

Arbomeric MP20 is supplied in polyethylene 380ml cartridges and 600ml foils





TECHNICAL DATA	
Skin Time at 20°C/65% RH:	15 minutes
Application temperature:	+5°C to + 35°C
Service temperature:	-40°C to +120°C
Chemical resistance:	Resistant to most dilute acids and alkalis. Organic solvents may cause the sealant to swell and lose adhesion. Strong cleaning agents can cause surface deterioration and may affect the efficiency of the material.
UV resistance:	Very good
Service life:	20 years + (when used in trafficked areas the life may be reduced)
Movement Accommodation:	
Butt joints (movement in tension and compression):	35%
Lap joints (movement in shear):	70%
Colours:	White, Grey, Black
Modulus @ 100 % Extension:	1.12 N/mm²
Ultimate Elongation:	220%
Tensile Strength @ Break:	1.85 N/mm²

### JOINT SIZE SUITABILITY

### Joint Width

Minimum 6mm

Maximum 25mm (single application); 35mm (multiple applications)

### Joint Depth

Minimum 10mm on porous substrates (12mm in floor joints)

Minimum 6mm on non-porous substrates (12mm in floor joints)

Maximum 20mm

# Width: Depth ratio (within above min/max restrictions)

2:1 butt joints

1:1 lap joints/floor joints

### **PACKAGING**

25 x 380ml Polyethylene Cartridges per box. Polyethylene Nozzles are included in each box.

### STORAGE LIFE

12 months in original unopened packaging stored in a cool, dry place out of direct sunlight.

### **HEALTH AND SAFETY**

No particular health hazards are associated with this product but please consult Material Safety Data Sheet for full information.

# ARBO® Arbomeric MP20 Datasheet / Feb 2019

### **ACCESSORIES**

### **Primers**

Arbo Primer 2650 (500ml tin) Yield approximately 125 metres per tin

### Cleaners

Arbo Cleaner No.17- 1 Litre Tin (Xylene based – not suitable for use with plastics or delicate finishes) Arbo Cleaner No. 16 - 1 Litre Tin (Alcohol Based)

### **Ancillary Equipment**

Polyethylene Nozzles Arbo Caulking Guns

JOINT SIZE (MM)	METRES/LITRE
6 x 6	27.8
9 x 6	18.5
12 x 9	9.3
18 x 10	5.6
25 x 10	4.0

### SPECIFICATION COMPLIANCE

BS EN ISO 11600 - F - 20 HM



Certified under the Harmonized European Standard EN15651. Please refer to separate Declaration of Performance for more details.

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# SAFETY DATA SHEET ARBOSIL HDLM

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name ARBOSIL HDLM

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

### 1.3. Details of the supplier of the safety data sheet

Supplier Adshead Ratcliffe & Co. Ltd.

Derby Road, Belper

Derbyshire. DE56 1WJ

Tel. (+44) 01773 826661 Fax. (+44) 01773 821215

sds@arbo.co.uk

### 1.4. Emergency telephone number

Emergency telephone (+44) 01773 826661 (office hours only)

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317

Environmental hazards Not Classified

### 2.2. Label elements

### Pictogram



Signal word Warning

**Hazard statements** H317 May cause an allergic skin reaction.

**Precautionary statements** P280 Wear protective gloves.

Contains METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE

### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

### ARBOSIL HDLM

### METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE

1-5%

CAS number: 22984-54-9 EC number: 245-366-4

Classification

Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT RE 2 - H373

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 In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by

mouth to an unconscious person.

Inhalation If inhalation causes adverse effects, remove to fresh air.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if

readily available. Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact Wipe off excess material with cloth or paper. Wash skin thoroughly with soap and water. Get

medical attention promptly if symptoms occur after washing. In the event of any sensitisation

symptoms developing, ensure further exposure is avoided.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Get medical attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation No specific symptoms known.

Ingestion May cause discomfort if swallowed.

Skin contact Allergic rash.

Eye contact May cause temporary eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Water spray, fog or mist. Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

Hazardous combustion products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours.

### 5.3. Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

### **ARBOSIL HDLM**

Special protective equipment for firefighters

Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear appropriate protective clothing. Avoid contact with eyes and skin.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Collect and place in suitable waste disposal containers and seal securely. Clean any slippery

coating that remains using a detergent / soap solution or other biodegradable cleaner.

### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards. For waste disposal, see section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Persons susceptible to allergic reactions

should not handle this product. Good personal hygiene procedures should be implemented.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Unspecified storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Gunnable sealant.

### SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

### Protective equipment





Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible.

Hand protection

Use protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the

glove material.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Wash promptly with soap and water if skin becomes contaminated.

Respiratory protection

No specific recommendations.

### **ARBOSIL HDLM**

### **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on basic physical and chemical properties

Appearance Paste.

Colour Various colours.

Odour Slight.

Odour threshold Not determined.

pH (concentrated solution): Not applicable.

Melting pointNot applicable.Initial boiling point and rangeNot applicable.Flash pointNot applicable.Evaporation rateNot applicable.

Upper/lower flammability or

explosive limits

**Evaporation factor** 

Not applicable.

Not applicable.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density 1.28 @ 20C

Solubility(ies) Insoluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature Not applicable.

Decomposition Temperature Not determined.

Viscosity ~ 10,000 P @ 20°C

Explosive properties Not applicable.

Oxidising properties Not applicable.

9.2. Other information

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Moisture curing

process releases: a small amount of butanone-2-oxime (MEKO)

### 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Not known. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

### **ARBOSIL HDLM**

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Butanone-2-oxime (MEKO) is damaging to nasal membranes in rats and mice at a

concentration in excess of 10ppm over a prolonged period of time.

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) For this endpoint no toxicological data is available for the whole product.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) For this endpoint no toxicological data is available for the whole product.

Acute toxicity - inhalation

Notes (inhalation LC₅) For this endpoint no toxicological data is available for the whole product.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation The product contains a small amount of a sensitising substance which may cause an allergic

reaction in sensitive individuals.

Germ cell mutagenicity

**Genotoxicity - in vitro**Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Not relevant, due to the form of the product.

**Inhalation** No specific symptoms known.

**Ingestion** May cause discomfort if swallowed.

Skin contact May cause sensitisation by skin contact.

**Eye contact** May cause irritation to eyes.

SECTION 12: Ecological Information

### ARBOSIL HDLM

**Ecotoxicity** In cross-linked state not soluble in water. Easily separable from water by filtration.

12.1. Toxicity

**Toxicity** There are no data for the product.

12.2. Persistence and degradability

Persistence and degradability This product is not expected to be readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient Not applicable.

12.4. Mobility in soil

**Mobility** The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Confirm disposal procedures with environmental engineer and local regulations.

Waste class Recommended EWC Code 08 04 09\* HP13 Sensitising

### **SECTION 14: Transport information**

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

### 14.1. UN number

No information required.

### 14.2. UN proper shipping name

No information required.

### 14.3. Transport hazard class(es)

No information required.

### 14.4. Packing group

No information required.

### 14.5. Environmental hazards

### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

No information required.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

### ARBOSIL HDLM

**Transport in bulk according to** No information required. **Annex II of MARPOL 73/78** 

and the IBC Code

### **SECTION 15: Regulatory information**

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

**EU legislation** Regulation (EC) 1907/2006 REACH.

Regulation (EC) 1272/2008 CLP.

Guidance Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### **SECTION 16: Other information**

Revision comments Classification and labelling according to CLP Regulations.

 Revision date
 01/06/2015

 Supersedes date
 18/08/2014

 SDS number
 10430

DO Humber 10430

**Hazard statements in full** H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs (Blood) through prolonged or repeated exposure if

swallowed.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# ARBO

# **ARBOSIL HM**

Arbosil HM is a One-part High Modulus Acetoxy Cure Silicone Sealant, which cures rapidly on exposure to moisture vapour to form a resilient elastic silicone rubber. This product contains a fungicide to make it resistant to fungus and mildew. Arbosil HM bonds well to acrylic, ceramic, metal, glass and laminate surfaces, and will not discolour during its service life, whilst maintaining good elasticity.

### MAIN APPLICATIONS

This product is recommended for the sealing around all types of sanitary fittings including baths, showers, urinals, sinks and wash basins in both domestic and commercial locations.

It is suitable for use in areas of high humidity.

Can be used as to seal around laminates and worktops.

Suitable for both interior and exterior use.

Use for sealing of aluminium sheets and components.

Use as an adhesive to bond PVC trims.

**NB**: It is not recommended for overpainting, or use against most metal surfaces particularly soft metals like brass or lead, and is not for use against natural stone. (Contact Adshead Ratcliffe Technical Services for advice on which product to use against these substrates).





### APPLICATION INSTRUCTIONS

### Joint Preparation

The joint surfaces must be clean, dry and free from all contamination and any loose materials. The surfaces should be degreased using the appropriate Arbo Cleaner. Primers may be required on some substrates. It is recommended that Adshead Ratcliffe Technical Services Department should be consulted and advice obtained with regard to the choice of primer for specific purposes.

### Joint Backing

Where applicable, appropriate joint filler e.g. closed cell polyethylene foam, should be used to provide the correct joint depth.

### **Application**

Arbosil HM is supplied in cartridges and can be applied into the joint using an Arbo Caulking Gun. All joint preparation, priming, and sealant application should be carried out in accordance with BS 8000 Part 16, the British Standard for the sealing of joints in buildings using sealants.

TECHNICAL DATA	
Colours	White, Black, Translucent, Aluminium, Jasmine, Manhattan.
Skin Time at 20° C/65 % RH:	10 minutes
Application Temperature:	+ 5° C to + 50° C
Service Temperature:	- 50° C to + 150° C
Typical Shore Hardness:	20
Cure Rate at 20° C/65 % RH:	2mm/24 hours
Chemical Resistance:	Resistant to most alkalis and dilute acids; organic solvents may cause the sealant to swell and lose adhesion, but do not directly dissolve the sealant.
UV Resistance:	Very Good
Service Life:	25 years+
Movement Accommodation:	Butt joints (movement in tension and compression): 25 %. Do not exceed ± 20 % in any one direction
Lap joints (movement in shear):	50 %. Do not exceed ± 40 % in any one direction

### JOINT SIZE SUITABILITY

### Joint Width

Minimum 6mm Maximum 25mm (single application); 35mm (multiple applications)

### Joint Depth

Minimum 10mm on porous substrates Minimum 6mm on non-porous substrates Maximum 15mm

# Width: Depth ratio (within above min/max restrictions)

2:1 butt joints 1:1 lap joints

### STORAGE LIFE

12 months in original unopened package stored in a cool, dry place out of direct sunlight. Protect from frost.

### **HEALTH & SAFETY**

No particular health hazards are associated with this product but please consult Material Safety Data Sheet for full information.

### **PACKAGING**

25 x 310ml plastic cartridges. Polyethylene nozzles are included in each box.

### **ACCESSORIES**

### **Primers**

Arbo Primer 2650 500ml tin (yield approximately 125 metres per tin)
Arbo Primer 2402 500ml tin (yield approximately 200 metres per tin)
Arbo Primer 2172 500ml tin (yield approximately 200 metres per tin)
Please refer to Adshead Ratcliffe Technical Services for which primers to be used with individual substrates.

### Cleaners

Arbo Cleaner No. 15 - 500ml Tin (Ketone based - suitable for unpainted metal, concrete, brick and glass) Arbo Cleaner No. 16 - 1 Litre Tin (Xylene based - suitable for unpainted metal, concrete and brick) Please refer to Adshead Ratcliffe Technical Services for advices on which cleaner to use.

### **Ancillary Equipment**

Polyethylene Nozzles Arbo Caulking Guns Arbo Silicone Tooling Block Latex Gloves Two Ply Small Blue Wipes

### SPECIFICATION COMPLIANCE

BS EN ISO 11600 F/G 20HM



Certified under the Harmonized European Standard EN15651. Please refer to separate Declaration of Performance for more details.

QUANTITY ESTIMATOR	
JOINT SIZE (MM)	METRES/LITRE
6 x 6	27.75
9 x 6	18.50
12 x 9	9.25
18 x 10	5.55
25 x 10	4.0

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Revision date: 09/05/2017 Revision: 1 Supersedes date: 17/06/2015



# SAFETY DATA SHEET ARBOSIL HM

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name ARBOSIL HM

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

Identified uses General purpose silicone sealant Glass and sanitary sealant

### 1.3. Details of the supplier of the safety data sheet

Supplier Adshead Ratcliffe & Co. Ltd.

Derby Road, Belper

Derbyshire. DE56 1WJ

Tel. (+44) 01773 826661 Fax. (+44) 01773 821215

sds@arbo.co.uk

### 1.4. Emergency telephone number

Emergency telephone (+44) 01773 826661 (office hours only)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### 2.2. Label elements

### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Composition comments Polydimethylsiloxane with fillers, auxiliaries. acetoxysilane crosslinking agent.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General information In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by

mouth to an unconscious person.

**Inhalation** Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get

medical attention if a large quantity has been ingested. Show this Safety Data Sheet to the

medical personnel.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Get medical attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

Revision date: 09/05/2017 Supersedes date: 17/06/2015 Revision: 1

### **ARBOSIL HM**

Inhalation May cause discomfort.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause redness and irritation.

Eye contact May cause temporary eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor See Section 4.1

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media Water spray. Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours. Acetic acid.

### 5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours.

for firefighters

Special protective equipment Wear self contained breathing apparatus.

### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes.

Wear personal protective equipment (See section 8).

### 6.2. Environmental precautions

**Environmental precautions** Do not allow into watercourses. Contain spillage with sand, earth or other suitable non-

combustible material.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. Clean any slippery

coating that remains using a detergent / soap solution or other biodegradable cleaner.

### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards. For waste disposal, see section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Good personal

hygiene procedures should be implemented.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Storage precautions

### **ARBOSIL HM**

Storage class Unspecified storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Gunnable sealant.

### SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

### Protective equipment



Appropriate engineering

controls

Provide adequate ventilation.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible.

Hand protection For prolonged or repeated skin contact use suitable protective gloves. It is recommended that

gloves are made of the following material: Viton rubber (fluoro rubber). Gloves suitable for up

to 60 minutes use.

Other skin and body

protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures No specific hygiene procedures recommended but good personal hygiene practices should

always be observed when working with chemical products. Wash at the end of each work shift

and before eating, smoking and using the toilet.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Use of ABEK mask

filter during prolonged exposure advised.

### **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on basic physical and chemical properties

Appearance Uncured -paste. Cured - rubber.

Colour Various colours.

Odour Pungent.

Odour threshold Acetic acid: 0.025 mg/m3

**pH** Product displays acidic reaction with water.

Melting pointNot applicable.Initial boiling point and rangeNot applicable.Flash pointNot applicable.Evaporation rateNot applicable.

Upper/lower flammability or

explosive limits

**Evaporation factor** 

Lower flammable/explosive limit: 4 (acetic acid) Upper flammable/explosive limit: 17 (acetic

acid)

Not applicable.

Revision date: 09/05/2017 Revision: 1 Supersedes date: 17/06/2015

### **ARBOSIL HM**

Vapour pressure Not applicable.

Vapour density Not applicable.

Solubility(ies) Practically insoluble Hydrolytic decomposition occurs.

Partition coefficient : Not applicable.

Auto-ignition temperature ~ 400°C

Decomposition Temperature Not determined.

Viscosity ~8000 P @ 20°C

Explosive under the influence

of a flame

Oxidising properties Does not meet the criteria for oxidising.

Not applicable.

9.2. Other information

**Explosive properties** 

Other information None.

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures. Moisture curing process releases: a small amount of

acetic acid

### 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Not known. Will not polymerise.

10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with the following materials: Water, moisture.

10.5. Incompatible materials

Materials to avoid Reacts with water, basic substances and alcohols. Reaction causes the formation of acetic

acid.

10.6. Hazardous decomposition products

Hazardous decomposition By hydrolysis: Acetic acid. Temperatures of ~ 150 C may generate: A small amount of

**products** formaldehyde, through oxidation.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅o) Assessed on the basis of constituents; LD50, oral, rat >2000mg/Kg. Conclusion by analogy.

ATE (mixture) oral >5000mg/Kg

Acute toxicity - dermal

Notes (dermal LD₅o) LD50, dermal, rabbit >2009mg/Kg Conclusion by analogy.

Skin corrosion/irritation

Animal data Not irritating (rabbit). Conclusion by analogy.

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Serious eye damage/irritation

Serious eye damage/irritation Not irritating (rabbit). Conclusion by analogy.

Skin sensitisation

**Skin sensitisation** For this endpoint no toxicological data is available for the whole product.

Germ cell mutagenicity

Genotoxicity - in vitro For this endpoint no toxicological data is available for the whole product.

Carcinogenicity

Carcinogenicity For this endpoint no toxicological data is available for the whole product.

Reproductive toxicity

Reproductive toxicity - fertility For this endpoint no toxicological data is available for the whole product.

Specific target organ toxicity - single exposure

**STOT - single exposure** For this endpoint no toxicological data is available for the whole product.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure For this endpoint no toxicological data is available for the whole product.

Aspiration hazard

Aspiration hazard Not relevant, due to the form of the product.

**Inhalation** No specific health hazards known.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Evaluation in analogy to a tested similar product: Slight irritation possible.

Acute and chronic health

hazards

Moisture curing process releases a small amount of acetic acid which can irritate skin and

mucous membranes.

### SECTION 12: Ecological Information

### 12.1. Toxicity

**Toxicity** There are no data for the product. Toxicity to fish is improbable.

### 12.2. Persistence and degradability

Persistence and degradability Silicone content: biologically not degradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation in aquatic organisms is not expected.

Partition coefficient : Not applicable.

12.4. Mobility in soil

**Mobility** The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

Other adverse effects None known.

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### **ARBOSIL HM**

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be

considered.

**Disposal methods**Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and

local regulations.

Waste class Recommended EWC Code 08 04 10

### **SECTION 14: Transport information**

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

### 14.1. UN number

No information required.

### 14.2. UN proper shipping name

No information required.

### 14.3. Transport hazard class(es)

No information required.

### 14.4. Packing group

No information required.

### 14.5. Environmental hazards

### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

No information required.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to No information required.

Annex II of MARPOL 73/78

and the IBC Code

### **SECTION 15: Regulatory information**

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

EU legislation Regulation (EC) 1907/2006 REACH (as amended).

Regulation (EC) 1272/2008 CLP (as amended).

Guidance Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

Revision comments General review

Revision date 09/05/2017

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Revision 1

Supersedes date 17/06/2015

SDS number 20332

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# ARBO

# **ARBOSIL LM**

ARBOSII I

Arbosil LM is a one part Neutral Cure Silicone Sealant which cures on exposure to moisture vapour to form an elastic silicone rubber.

### MAIN APPLICATIONS

Recommended for perimeter sealing of PVCu frames and sealing joints in brickwork, the MVP and Heel Bead methods of glazing insulating glass units, remedial glazing, and sealing joints in translucent roofing sheets.

**NB**: It is not recommended for overpainting, use in glass wall assemblies and use against natural stone.

### APPLICATION INSTRUCTIONS

### Joint Preparation

The joint surfaces must be clean, dry and free from all contamination. The surfaces should be degreased using the appropriate Arbo Cleaner. Primers may be required on some substrates. It is recommended that Adshead Ratcliffe Technical Services Department should be consulted and advice obtained with regard to the choice of primer for specific purposes.

### Joint Backing

Where applicable, appropriate joint filler e.g. closed cell polyethylene foam, should be used to provide the correct joint depth. All joint preparation, priming, and sealant application should be carried out in accordance with BS 8000 Part 16, the British Standard for the sealing of joints in buildings using sealants.

### **Application**

Arbosil LM is supplied in polyethylene 310 and 380ml cartridges and can be applied into the joint using an Arbo Caulking Gun





TECHNICAL DATA	
Colours	White, Black, Grey, Translucent, Anthracite, Brown, Buff, Dark Bronze, Portland, Rustic Red, Magnolia.
Skin Time at 20° C/65 % RH (Coloured Grades):	10 minutes
Skin Time at 20° C/65 % RH (Translucent Grade):	20 minutes
Application Temperature:	+ 5° C to + 40° C
Service Temperature:	- 40° C to + 120° C
Typical Shore A Hardness:	30
Cure Rate at 20° C/65 % RH:	2mm/24 hours
Chemical Resistance:	Resistant to most dilute acids and alkalis. Organic solvents may cause the sealant to swell and lose adhesion.
UV Resistance:	Very Good
Service Life:	25 years+
Movement Accommodation:	Butt joints (movement in tension and compression): 50 %. Do not exceed ± 33 % in any one direction
Lap joints (movement in shear):	100 %. Do not exceed ± 66 % in any one direction

### JOINT SIZE SUITABILITY

### Joint Width

Minimum 6mm

Maximum 25mm (single application); 50mm (multiple applications)

### Joint Depth

Minimum 10mm on porous substrates Minimum 6mm on non-porous substrates Maximum 15mm

### Width: Depth ratio

(within above min/max restrictions)

2:1 butt joints 1:1 lap joints

### STORAGE LIFE

12 months in original unopened packaging stored in a cool, dry place out of direct sunlight.

### **HEALTH & SAFETY**

Contains Oximosilanes (Not Translucent Grade). Please consult Material Safety Data Sheets for full information LM Translucent has its own Material Safety Data Sheet.

### **PACKAGING**

25 x 310ml or 380ml Polyethylene Cartridges per box. Polyethylene Nozzles are included in each box.

### **ACCESSORIES**

### **Primers**

Arbo Primer 2650 (500ml tin) Yield approximately 125 metres per tin Arbo Primer 2402 (500ml tin) Yield approximately 200 metres per tin Arbo Primer 2172 (500ml tin) Yield approximately 200 metres per tin

### Cleaners

Arbo Cleaner No.17- 1 Litre Tin (Xylene based – not suitable for use with plastics or delicate finishes) Arbo Cleaner No. 16 - 1 Litre Tin (Alcohol Based)

### **Ancillary Equipment**

Polyethylene Nozzles Arbo Caulking Guns

### SPECIFICATION COMPLIANCE

BS EN ISO 11600 - F/G - 25 LM

BS 5889 Type A: 1989



Certified under the Harmonized European Standard EN15651. Please refer to separate Declaration of Performance for more details.

QUANTITY ESTIMATOR		
JOINT SIZE (MM)	METRES/LITRE	
6 x 6	27.8	
9 x 6	18.5	
12 x 9	9.3	
18 x 10	5.6	
25 x 10	4.0	

IMPORTANT: The information in this leaflet is given in good faith and based on results gained from experience and tests. However, all recommendations or suggestions are made without guarantee since the conditions of use are beyond our control. Goods are supplied subject to the Company's terms and conditions of sales, a copy of which is available on request.

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