
White Lining (Gilvar)

Contents

Gilvar

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Old Station Yard
Walton Lane
Barton Under Needwood
Burton on Trent
DE13 8EJ
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Scope of Works



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ROAD AND CAR PARK MARKINGS

*Old Station Yard, Walton Lane, Barton under Needwood,
Burton on Trent DE13 8EJ
Tel: 01283712450*

SCOPE OF WORKS

Site: P23-012 Unit 3 Panattoni Park Wingates Bolton – Car Park/Yard Markings

Car Park / Yard

Marking requirements to be advised by Winvic



**Registered No. 2168606 England V.A.T No. 473 6313 44
Directors: C. M. Davies (Managing), J. A. Scarratt, E. J. O'Brien (Company Secretary)**

Certificates/Warranties/Guarantees

N/A



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Cleaning and Maintenance Regimes



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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
Car Park Markings – Thermoplastic								✓	N/A	Thermoplastic externally in areas of highest wear should be overlaid 2-3 year intervals. Areas receiving less traffic, i.e. car spaces may give up to 10 years maintenance free use. Thermoplastic is generally self-cleaning due to traffic, however in areas where traffic use is negligible, markings maybe cleaned using a high powered warm jet wash with manufacturer’s recommended cleaning fluid appropriate to the area being cleaned.

Data Sheets



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ROAD AND CAR PARK MARKINGS

COSHH ASSESSMENT

Product Name:	Road Marking white plain, car park screed, bright line - Thermoplastic	COSHH Assess No.	1.2A
Description of Substance:	Thermoplastic screed for line marking white powder	Hazard Group	None
Workplace Exposure Limits:	Total Dust – 10mg/m3 (LTEL, 8hrs) Inhalable Dust – 4mg/m3 (LTEL, 8hrs)	Date:	January 2023
Task Activity:	Cold powdered mix, hot applied, primarily used on asphalt and concrete surfaces	Risk Phrases:	None in full
Suppliers Name & Address	Shildon Thermoplastics, Hackworth Industrial Estate, Shildon, Co Durham D14 1HG Tel:- 01388 776070	Safety Phrases:	None in full

HAZARD PROPERTIES


 <p>Dry powder in 20kg sack contains synthetic resin, mineral oil, Glass beads and titanium dioxide pigment. LOW HAZARD in powder form. Molten product adheres to skin and causes burns</p>	State:	Off white powder. Mixed hot material white.
	Melting Point:	70°C - 120°C
	Flashpoint	>230°C
	Quantity Used	Up to 40No 20kg sacks per day
	Frequency Usage:	Daily
	Task Length	6hrs

Route of Exposure						Persons At Risk					
Skin	Yes	Eyes	Yes	Inhalation	Yes	Users of Product	Yes	Members of Public		No	
Ingestion	No	Cuts/ Abrasions	No	Injection	No		Other Workers		No	Young Persons	

PPE REQUIREMENTS

GOGGLES/FULL FACE SHIELD	Yes – BSEN166	APRONS	No
GLOVES	Yes full lower arm gauntlet – BSEN407	RESPIRATORS	No
OVERALLS	Yes	BARRIER CREAM	No

ADDITIONAL CONTROL MEASURES

General Precautions	Full PPE as above is <u>essential at all times</u> when using hot material	Control Measures	Correct handling will ensure no exposure to dust fumes or hot material.
First Aid/Hygiene Arrangements	Inhalation of hot vapours- remove to fresh air, if rapid recovery does not occur seek medical attention. Skin contact – cool with water, don't pick off material	Fire Precautions	Alcohol resistant foam dry chemical powder, CO2 or blanket. Use respiratory and eye protection. Toxic vapours maybe released during fire Do not use water as extinguisher
LEV Requirements	DO NOT USE HOT BOILERS INTERNALLY. Ensure good ventilation	Monitoring Requirements	None required
Transport Arrangements	Classified as Non-hazardous no restrictions	Storage Requirements	Within low melt polythene sack
Spillage Procedures	Collect materials and recycle into boiler, or dispose into waste container	Disposal Requirements	Landfill, incinerators or recycle
Date of Next Assessment: January 2024			
Full Name (printed): <u>Emma O'Brien</u> Date: 06.01.2023		Signature of Assessor: 	



ROAD AND CAR PARK MARKINGS

COSHH ASSESSMENT

Product Name:	Road Marking Yellow Thermoplastic (Lead Free Pigment)	COSHH Assess No.	1.2B
Description of Substance:	Cold powdered mix, hot applied	Hazard Group	N/A
Workplace Exposure Limits:	10mg/m ³ (LTEL,8hrs) total dust 4mg/m ³ (LTEL,8hrs) inhalable dust	Date:	January 2023
Task Activity:	Cold powdered mix, hot applied, primarily used on asphalt and concrete surfaces	Hazard Statement:	H317, H334
Suppliers Name & Address	Shildon Thermoplastics, Hackworth Industrial Estate, Shildon, Co Durham D14 1HG Tel:- 01388 776070	Safety Phrases:	N/A

HAZARD PROPERTIES

N/A	State:	Granular powder. Molten when hot
	Melting Point:	70-120°C
	Flash Point	>233°C
	Solubility in Water	Insoluble
	Frequency Usage:	Daily
	Task Length	N/E 6hrs

Route of Exposure						Persons at Risk					
Skin	Yes	Eyes	Yes	Inhalation	Yes	Users of Product	Yes	Members of Public	Yes		
Ingestion	Yes	Cuts/ Abrasions	No	Injection	No	Other Workers	Yes	Young Persons	Yes		

PPE REQUIREMENTS

GOGGLES/ FULL FACE SHIELD	Yes - BSEN166	APRONS	No
GLOVES	Yes full arm gauntlet - BSEN407	RESPIRATORS	No
OVERALLS	Yes	BARRIER CREAM	No

ADDITIONAL CONTROL MEASURES


General Precautions	Control Measures
Full PPE as above is essential at all times	Ensure there is sufficient ventilation of working area.

First Aid/Hygiene Arrangements	Fire Precautions
Skin – Cold – May cause irritation to skin, wash off immediately. Skin – Hot – Immerse immediately in cold water for at least 10 mins. Seek medical attention. DO NOT ATTEMPT TO REMOVE MATERIAL OR USE ANY TYPE OF SOLVENT OR THINNER. Eye – Cold – May cause irritation , rinse immediately EYE – Hot – Irrigate immediately/thoroughly with plenty of cold water for at least 10 mins. DO NOT ATTEMPT TO REMOVE MATERIAL OR USE ANY TYPE OF SOLVENT OR THINNER. Inhalation – Cold & Hot – May cause irritation to mucous membranes. Move affected person to fresh air. Seek medical attention. Ingestion – Cold & Hot– Rinse mouth immediately/thoroughly with plenty of cold water. DO NOT INDUCE VOMITING. Seek medical attention.	Carbon dioxide or dry powder. DO NOT USE WATER.

LEV Requirements	Monitoring Requirements
DO NOT USE HOT BOILERS INTERNALLY. Ensure good ventilation	None required

Transport Arrangements	Storage Requirements
Product is not classified as dangerous for transport	Dry powdered mix in sacrificial, low melt polythene bags 25kg, yellow pigment supplied in sachet form and placed in product bags during manufacture.

Spillage Procedures	Disposal Requirements
Negligible Eco toxicity. Although there are no known risks to aquatic life, do not allow material to enter drains, sewers and water courses	Product bags (low melt polythene) form part of the molten material. Any unused bags, pallet wrap or pallets should be taken for recycling, recovery or disposal through suitably qualified contractor.

Date of Next Assessment: January 2024	
Full Name (printed): Emma O'Brien Date: 06.01.2023	Signature of Assessor: 



ROAD AND CAR PARK MARKINGS

Old Station Yard, Walton Lane, Barton under Needwood,

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PROPOSED SPECIFICATION FOR LINE MARKING - CAR PARKS

1. All markings at all locations shall be hand or machine applied screeded thermoplastic material Class A to BSEN1436: 2000 Parts 1, 2 and 3 25kg sacks kite marked.
2. Solid glass beads shall be incorporated into the thermoplastic mixture, minimum 20% bead content for white markings. Yellow markings to be plain unreflectorised.
White markings to be reflectorised.
3. Concrete surfaces to receive primer prior to application.
4. A skid resistance of 45.
5. A luminance value of 70 (65 after re-melting), alternatively, yellow markings luminance value 60.
6. A synthetic hydrocarbon material binder content 18-22%.
7. Colour shall be white or yellow.
8. Line markings shall be no less than 2mm or more than 5mm.
9. Safe heating temperature 0-220°C.

MAINTENANCE

10. Thermoplastic externally in areas of highest wear should be overlaid at 2-3 year intervals. Areas receiving less traffic, i.e., car spaces may give up to 10 year's maintenance free use.

CLEANING

11. Thermoplastic is generally self-cleaning due to traffic. However, in areas where traffic use is negligible, markings may be cleaned using a high-powered, warm jet wash with manufacturer's recommended cleaning fluid appropriate to the area being cleaned.



Registered No. 2168606 England V.A.T No. 473 6313 44
Directors: C. M. Davies (Managing), J. A. Scarratt, E. J. O'Brien (Company Secretary)

SHILDON THERMOPLASTICS LIMITED

Manufacturers of Thermoplastic Road Marking Materials, Bitumen Products & Anti Skid Materials

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"You're on the right lines"

Thermoplastic Product Data Sheet - High Performance Thermoplastic Road Marking Material

Description

Brightline is a high performance thermoplastic road marking material designed to provide exceptional dry retro reflectivity performance on the road.

Uses

Brightline should be applied on roads where enhanced whiteness and retro reflectivity area required increasing driver awareness and safety. This may be a general requirements or one specific to hazardous section of road.

Brightline is a true multi-purpose material and may be applied by screed, extrusion or spray methods.

Benefits

Brightline meets the higher performance criteria that can be specified within BS EN 4136.

Brightline offers consistent melt viscosity, producing lines with excellent definition, retro reflectivity and long-term durability.

ROAD MARKING MATERIALS (Product range to EN 1871, EN 1824, EN 1436)

Product	Screed	Spray	Extruded
"Brightline" Standard	•	•	•
"Brightline" High Performance	•	•	•
Plain White	•	•	•
Car Park	•		
Yellow Reflective	•	•	•
Yellow Plain	•	•	•
Nightvision (Wet Night Visibility)	(PROFILE)	(PROFILE)	
Ribtex	(PROFILE)	(PROFILE)	
Blue Disabled Bays	•		
Red Route	•		

PRODUCT TECHNICAL DATA

Product	Luminance	Mcl/Lux	S/Point	SRV
"Brightline" Standard	LF 4	100min	SP1	45
"Brightline" High Performance	LF 6	150min	SP2	55
Plain White	LF 4	-	SP1	45
Nightvision (Wet Night Visibility)	LF 6	80min	SP2	55
Ribtex	LF 4	100min	SP2	50
Yellow Plain	LF 2	-	SP1	45
Yellow Reflective	LF 2	80min	SP1	45

Surface Preparation

Ensure that the road surface is dry and free from dusty, dirt, grease, salt and other contaminants. The road surface temperature must be above 5°C. Be aware that road markings applied to a new or abnormally hot bituminous surface can become discoloured or obliterated by the transfer of surface bitumen by vehicle tyres.

Thermoplastic road marking materials can be laid over existing thermoplastic markings if the original markings are sound. Old paint markings must be removed before applying thermoplastic.

Badly worn bituminous or concrete surfaces should be treated with Bitex Primer prior to application of hot applied surfacing.

Product Application

The maximum safe heating temperature of 200°C should never be exceeded. Heating above the recommended pouring temperature or prolonged heating should be avoided otherwise deterioration of the pigment and the resin binder may occur.

Thermoplastic road marking material is supplied in melt able polythene sacks, which enables the whole sack to be placed into a pre-heater fitted with a mechanical stirrer and thermometer. When the material has been heated to a required application temperature, carefully transfer to the application equipment and proceed with use.

Where initial retro reflectivity or skid resistance is specified, Shildon Thermoplastic can provide glass beads/aggregate blends to suit.

Melted materials may be re-used after solidifying providing the total time in the molten state has not exceeded 6 hours.

The material should be laid to the following thicknesses:

Screed	2-5mm
Extrusion	2.5-3.5mm
Spray	>1.5mm

Aftercare

Under normal trafficking conditions with temperatures within normal ranges and periodic rainfall, thermoplastic should be self-cleaning

Packaging and Storage

Thermoplastic road marking materials are packaged in approx. 25kg heat sealed melt able polythene sacks and sold stretch-wrapped on pallets of approx. 1 tonne. This may vary for export/shipping requirements. Although the bags are sealed they contain vent holes through which water can enter and therefore the material should be stored under cover in dry conditions. Under normal circumstances thermoplastic has a shelf life of at least 1 year.