

EUROLUX

'EUROPEAN CLASS' THERMOPLASTIC ROAD MARKING MATERIAL

MATERIAL SPECIFICATION SHEET (MSS01)

description >>>

EUROLUX is a thermoplastic road marking material specifically designed to meet current demanding European Road Marking Standards. Manufactured under an ISO 9001:2008 & ISO14001:2004 Quality and Environmental System, it is BSI kitemarked to BS EN 1871:2000 and has been performance tested against the requirements of BS EN 1436.

scope of use >>>

Available as a combined Screed / Extrusion grade material or Spray, EUROLUX is suitable for all kinds of delineation and public highway marking applications - especially where the specification requires compliance with the European Classes for Retroreflectivity, Luminance and Skid Resistance.

product highlights / benefits >>>

- Specifically formulated to meet stringent European Road Marking Standards
- Range of performance levels available to meet individual specifications – please ask!
- Independently tested and supported by a valid UK Road Trial Certificate (BS EN 1824)
- Very stable material, does not significantly discolour upon prolonged heating (up to 6hrs)
- Available in both White & Yellow, Reflective & Non-Reflective grades

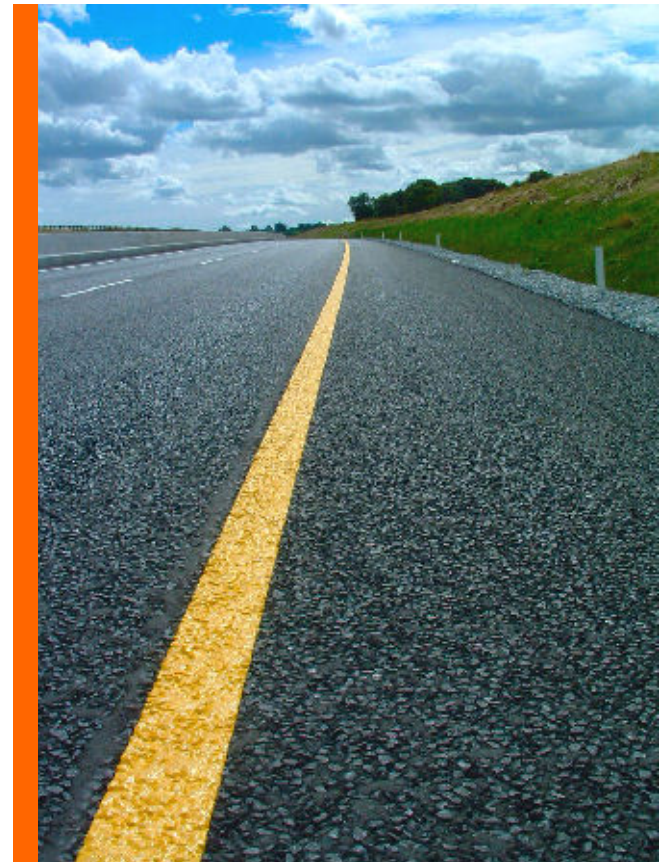
technical data >>>

Laboratory Tests	Value	Class
BS EN 1871 Softening Point	≥ 65°C	SP1
Export Grades	≥ 95°C	SP3
BS EN 1871 Luminance (β)	≥ 70 White ≥ 50 Yellow	LF4 (min) LF2 (min)
Road Trials	Value	Class
BS EN 1824 Durability	1x10 ⁶ wheel passes	P5
Performance Tests	Value	Class
BS EN 1436 Retroreflectivity (RL)	≥ 150 mcd m ⁻² lx ⁻¹ (white)	R3 (min)
Initial retroreflectivity is entirely dependent on the application method, colour, surface applied materials and conditions of application.		
BS EN 1436 Luminance (Qd) (Diffuse Illumination)	≥ 160 mcd m ⁻² lx ⁻¹	Q4 (min)
BS EN 1436 Skid Resistance (SRT)	≥ 45	S1 (min)
Higher initial skid resistance is achieved by the use of a special Drop on Bead / Aggregate / Grain mixture.		

Other Data	Value	Class
Flash Point (Open Cup)	≥ 230°C	N/A
Maximum Safe Heating Temp	220°C	N/A
Application Temp. Screed / Extrusion Spray	150 - 200°C 180 - 210°C	N/A N/A
Relative Density	1.9 ± 0.2 g/cm ³ (mt / m ³)	N/A
Coverage Rate Screed / Extrusion Spray	100 – 250 m ² / mt 230 – 390 m ² / mt	N/A N/A
Coverage rate is approximate only and depends on application speed, method, applied thickness and road surface texture.		

packaging & storage >>>

EUROLUX thermoplastic is packed in approx. 25kg heat-sealed meltable "pillow sacks" in 1 tonne lots.



Each batch is covered with a polyethylene top-sheet and shrink-wrapped. Materials should be stored under cover in dry conditions and if stored correctly will have a shelf life of > 1 year. The pillow sacks contain ventilation holes to prevent bursting and it is important that the material is stored under cover to prevent ingress of moisture.



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Wet material poses a significant Health and Safety risk to operators as it can "foam" excessively and overflow from the pre-heater.

health & safety information >>>

Please refer to separate H&S Data Sheet (MSDS XXXX). General information for all products is contained on the reverse of the pallet weight sheet.

surface preparation >>>

The surface should be dry, free from dust, dirt, grease or oil and any other detritus material. The road surface temperature should be above 5°C. Ideally existing markings should be removed prior to application.

EUROLUX may be applied over existing thermoplastic markings provided that they are in a sound condition and will not be easily removed from the road surface. EUROLUX should not be applied over old paint markings.

On worn bituminous and concrete surfaces, a suitable tack coat primer should be used in accordance with the manufacturer's instructions prior to application.

It should be noted that thermoplastic road markings laid on new bituminous surfaces could suffer from "bitumen carry-over" leading to discolouration and masking of the road markings.

application information >>>

EUROLUX is supplied in 25kg (approx.) low melt polyethylene bags that may be melted with the product (depending on application method, not recommended for spray materials).

Place a few bags of product into the preheater, fitted with mechanical agitation and temperature control devices, and heat up to approaching the stated application temperature.

When this initial material is molten the remainder of the preheater may then be filled (heating a small amount initially, increases the rate of heat transfer and reduces heating time for a full preheater of material).

When the material has been brought to the recommended temperature, and has been thoroughly mixed, it can then be transferred to the application equipment.



DO NOT EXCEED the maximum safe heating temperature as this is potentially dangerous and could lead to flashing, discolouration of the material and severe deterioration of the binder.

Surface applied glass beads or bead / aggregate / grain mix recommended by Kestrel Thermoplastics should be used. Application rates vary depending upon the grade of drop-on material to achieve optimum performance. Typical application rates are $400 \pm 100 \text{ g/m}^2$.

Use of alternative materials may reduce the performance characteristics of EUROLUX products.

EUROLUX products should be applied at the recommended thicknesses as follows:

- | | |
|--------------|-------------|
| 1) SCREED | 2 – 5 mm |
| 2) EXTRUSION | 2.5 – 4mm |
| 3) SPRAY | 1.5 – 2.5mm |



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The information contained in this specification is believed to be accurate as of the date of issue. Kestrel Thermoplastics Ltd. reserves the right to make changes to this specification as required. Performance data compiled from independent trials is INDICATIVE only and does not constitute a guarantee as in situ performance is significantly affected by application conditions. It is the users responsibility to ensure that the product selected is suitable for the intended use.



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