

DURASKID

'HARD-WEARING' THERMOPLASTIC ROAD MARKING MATERIAL

MATERIAL SPECIFICATION SHEET (MSS06)

description >>>

DURASKID is an advanced, *hard-wearing* thermoplastic road marking with high skid resistance properties designed for areas of excess wear due to heavy traffic volume, turning actions or other abrasive forces.

scope of use >>>

DURASKID is ideal for areas where extreme wear is expected – busy road junctions, stop & give way markings, box junctions. With the added attribute of enhanced skid resistance, DURASKID can also be used to increase safety in areas of high pedestrian and vehicular traffic - pedestrian crossings and car park markings. Primarily designed as a highly durable hand screed application material, it is also available in extrusion grades.

product highlights / benefits >>>

- More durable than conventional thermoplastic marking material
- High skid resistance – increased safety for pedestrian and vehicular traffic
- Easily Hand Applied
- Available in a range of colours, reflective or non-reflective - please contact Kestrel!

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)



Other Data	Value	Class
BS EN 1436 Skid Resistance (SRT)	≥ 55	S3
Flash Point (Open Cup)	≥ 230°C	N/A
Maximum Safe Heating Temp	220°C	N/A
Application Temp. Screed / Extrusion	150 - 200°C	N/A
Relative Density	1.9 ± 0.2 g/cm ³ (mt / m ³)	N/A
Coverage Rate Screed / Extrusion	100 – 250 m ² / mt	N/A

Coverage rate is approximate only and depends on application speed, method, applied thickness and road surface texture.



packaging & storage >>>

DURASKID 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. 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 XX). General information for all products is contained on the reverse of the pallet weight sheet.



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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.

DURASKID 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. DURASKID 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.



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 DURASKID products.

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

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



Date of Issue: March 2010

KM 09133



application information >>>

DURASKID is supplied in 25kg (approx.) low melt polyethylene bags that may be melted with the product.

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).

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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