

KESTREL THINSPRAY

'SUPER THIN' THERMOPLASTIC SPRAY ROAD MARKING MATERIAL

MATERIAL SPECIFICATION SHEET (MSS05)

description >>>

KESTREL THINSPRAY is a low viscosity, super-thin thermoplastic spray road marking designed for high-speed application under pressure. This requires specialist spray equipment and nozzles that are fed from a pressurized tank. KESTREL THINSPRAY is manufactured under an ISO 9001:2008 & ISO14001:2004 Quality and Environmental System and is BSI Kitemarked to BS EN 1871:2000.

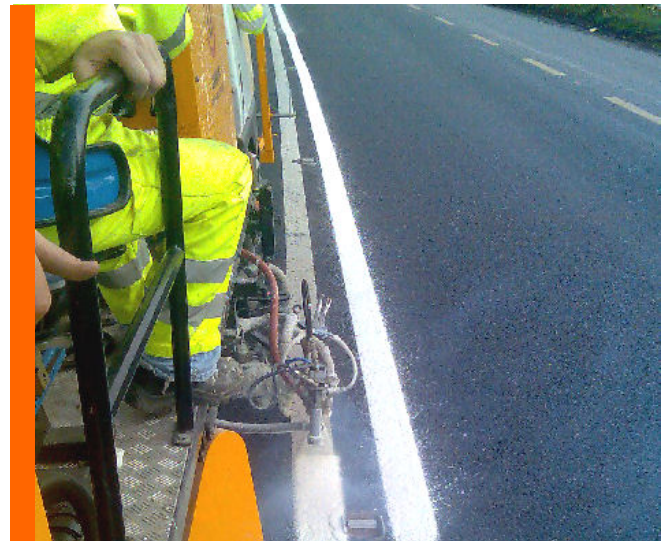
scope of use >>>

KESTREL THINSPRAY is specifically suited for the refurbishment of existing thermoplastic lines and its periodic application can help pro-long the performance life of such markings. It is a high coverage thermoplastic road marking particularly suited for the high output restoration of all edge-lines and centre-lines on public highways. It may also be considered for airport markings that frequently require fresh application of thin layers.

Due to its super-thin application properties, on some surfaces, it may not be suitable for first time application of new lines.

product highlights / benefits >>>

- Excellent coverage rates achievable
- Offers a real cost-effective option of restoring existing thermoplastic road markings that might otherwise have to be replaced
- Excellent drying times and fast application minimises traffic disruption and increases productivity
- Brilliant whiteness can restore or even enhance visual impact, especially at night
- Available in both White and Yellow grades with various performance levels for Retroreflectivity, Luminance and Skid Resistance



technical data >>>

Laboratory Tests	Value	Class	
BS EN 1871 Softening Point	≥ 95°C	SP3	
BS EN 1871 Luminance (β)	≥ 80 White ≥ 50 Yellow	LF6 LF2	
Other Data		Value	Class
Flash Point (Open Cup)	≥ 230°C	N/A	
Maximum Safe Heating Temp.	220°C	N/A	
Application Temp.	150 - 200°C	N/A	
Relative Density	1.5 ± 0.1 g/cm ³ (mt / m ³)	N/A	
Coverage Rate	Approx. 666 m ² /mt	N/A	

Coverage rate largely depends on applied thickness and road surface texture. This product is intended as a method for refurbishment only and application onto existing lines.

packaging & storage >>>

KESTREL THINSPRAY thermoplastic is packed in approx. 25kg heat-sealed meltable "pillow sacks" or 500kg bulk bags, 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.



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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.

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.

KESTREL THINSPRAY 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. KESTREL THINSPRAY 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 >>>

KESTREL THINSPRAY is supplied in 25kg (approx.) low melt polyethylene bags. For this particular product, it is recommended that these bags are **NOT** melted with the material.

Empty a few bags of material 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 ± 100 g/m².



Use of alternative materials may reduce the performance characteristics of KESTREL THINSPRAY products.

KESTREL THINSPRAY products should be applied at the recommended thicknesses as follows:

- 1) KESTREL THINSPRAY Approx. 1.0mm



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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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