



kestrel
THERMOPLASTICS LIMITED

KESTREL THERM



NON REFLECTIVE THERMOPLASTIC

PRODUCT DESCRIPTION

KestrelTherm is a cost-effective Non-Reflective Thermoplastic Road Marking Material. KestrelTherm is available in standard White and Yellow Grades but other colours can be manufactured to order.

Manufactured under an Integrated Management System incorporating:

BS EN ISO9001 – Quality,
BS EN ISO14001 – Environmental,
BS OSHAS 18001 – Occupational health and safety.

All materials are BSI Kitemarked to BS EN1871 and have been performance tested against the performance requirements of BS EN 1436.

SCOPE OF USE

Available for both Screed & Extrusion application methods, KestrelTherm is an ideal marking material for off-road applications such as Car Parks, Factory Markings, Forecourts and Playgrounds.

PRODUCT HIGHLIGHTS / BENEFITS

- Cost-effective grades available
- Easily hand applied
- Customised colours available upon request
- Environmentally friendly pigments available

Laboratory Tests	Value	Class
BS EN 1871 Softening Point	≥ 65°C	SP1
BS EN 1436 Skid Resistance	≥ 45	S1 min
Other Data		Value
Flash Point (Open Cup)	≥ 230°C	
Maximum Safe Heating Temp	220°C	
Application Temp: Screed / Extrusion:	180 - 200°C	
Relative Density	1.9 ± 0.2 g/cm ³ (mt / m ³)	
Coverage Rate: Screed / Extrusion:	100 – 175 m ² / mt	
Coverage rate is approximate only and depends on application speed, method, applied thickness and road surface texture.		
Colour Description	Colour Reference	
Traffic White	RAL 9016	
Traffic Yellow	RAL 1023	
Golden Yellow	356 (BS 381C)	
Primrose	310 (BS 381C)	
Signal Black	RAL 9004	
Middle Sky Blue	RAL 5015	
Traffic Red	RAL 3020	
Signal Red	537 (BS 381C)	
Turquoise Green	RAL 6016	
Tesco Purple	-	
Orange	-	
Deep Cream	-	

*Colours and references shown are approximate only. If in doubt, it is advisable to request a sample to ensure colour matching. Other colours are available upon request.

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Packaging & Storage

KestrelTherm 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. 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.

KestrelTherm 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.

KestrelTherm 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

KestrelTherm 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 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 materials recommended by Kestrel Thermoplastics should be used. Application rates vary depending upon the grade of drop-on materials 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 KestrelTherm products.

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

- | | |
|--------------|--------------|
| 1) SCREED | 3.0 – 5.0 mm |
| 2) EXTRUSION | 3.0 – 5.0 mm |

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