

Thermoline Retroreflective Hot Melt

PRODUCT DESCRIPTION

Type: A combination of plasticized resin, aggregate, pigment and glass beads supplied in powder form. Conforms to the British Standards (BS) specifications, 3262: Part 1/1989 and Kenya Standard KS 2157-1: 2008.

Uses: Designed for use as markings for road safety and traffic control

Substrates: Bitumen and properly primed concrete roads.

Advantages: High day and night retro-reflectivity and visibility. Fast drying - less traffic disruption during application. Excellent adhesion. High durability. Good flow and skid resistance. Non - toxic. One coat application. Cost effective.

Conditions during application; The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, measured near the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The moisture content in the substrate should not exceed 3% (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

PRODUCT DATA:

Colour Range: White, Yellow and Red

Pack Sizes: 25kg bag

Finish: Matt

Thinner & equipment cleaner: None.

Dilution Ratio: No thinning to be done

Drying Times: Surface Dry: 5 -10 mins. Hard Dry: 15 - 30 mins.

APPLICATION DATA:

The product can be applied by: By screed, special spray equipment or extruder.

Application: Heat the material to 160-190°C in the heater with adequate agitation till the material becomes a homogenized liquid. On aged asphalt roads and concrete roads application of Thermoplastic Primer coat is recommended for proper bonding of the material with the road surface. Ensure that the primer is thoroughly dry and void of solvent prior to application of the thermoplastic material. Ensure temperature of 160 – 190°C and adequate agitation during application. Drop-on glass beads must be immediately deposited after thermoplastic application.

Spreading Capacity per coat: Depends on film thickness applied, type of texture, surface porosity, imperfections, temperature & wastage during painting

4 - 8kg/m² at 1.5 – 3 mm film thickness.

TECHNICAL DATA SHEET



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DIRECTIONS FOR USE

Surface preparation & Paint System:

Surface	Preparation	Primer	Topcoat
New, cured bitumen	Ensure that the road surface is clean, free from dust and moisture. Repair joint sealings, cracks, cavities and crevices with appropriate materials Muddy roads should be cleaned with a pressurized water jet and allowed to dry Sweep off any dust particles with a broom and blow off fine particles with pressurized air	None	1 coat Crown Thermoline at 1.5 - 3 mm film thickness
Aged asphalt or concrete*	Ensure that the road surface is clean, free from dust and moisture. Remove deposits of previous coatings Repair joint sealings, cracks, cavities and crevices with appropriate materials Clean muddy roads should with a pressurized water jet and allow to dry Sweep off any dust particles with a broom and blow off fine particles with pressurized air	1 coat Thermoplastic Primer	coat Crown Thermoline at 1.5 - 3 mm film thickness

***The application of Thermoline on concrete is not highly recommended as it may result in poor adhesion and cracking. We recommend Acrylic Road Marking or Water based Road Marking Paint on concrete**

Precautions:

1. Do not hold thermoplastic above 180°C for more than 6 hours.
2. Do not heat the material above 200°C at any time or decomposition of the material occurs.
3. Change in colour indicates that the material has been scorched owing to overheating and needs to be discarded.

Availability: From Crown Depots in Nairobi, Kisumu, Mombasa, Meru, Nyeri, Eldoret, Arusha, Mwanza, Dar es Salaam, Kigali and through Crown Stockists.

Storage Conditions: Store under cool dry conditions away from direct sunlight, heat and extreme cold.

Disclaimer: The recommendations contained herein are given in good faith and meant to guide the user in accordance with good painting practices. They are gained from our tests and experiences and are believed to be accurate and reliable. No warranty/guarantee is implied by the recommendations contained herein since the conditions of use; application method, substrate and cleanliness of the substrate are beyond Crown Paints Kenya PLC control. Technology may change with time, necessitating changes to this Technical Data Sheet (TDS). Crown Paints Kenya PLC reserves the right to amend the TDS without any further notice. It is the responsibility of the user to ensure that the latest TDS is being used for reference.

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For additional health & safety information, please refer to our Material Safety Data Sheet (MSDS)