

Thermoplastic Road Marking Reflective

Description

Happilac Thermoplastic Road Marking Reflective is hot applied road marking paint which consists of light colored aggregates, pigments, extenders, and glass beads bound together with a thermoplastic resin, plasticized as necessary. When in molten state after heating, it is applied hot to road surfaces, using screed, extrusion or spray application.

Features

- Excellent adhesion and durability
- Oil based and good coverage
- Outstanding retention of glass beads
- Fast dry and highly washable
- Smooth flat finish
- Excellent wear properties

Recommended For

Happilac Thermoplastic Road Marking Paint is suitable for asphalt, concrete roads, runways, kerb-stone, speed humps and parking lots.

Limitations

- Drying time may vary depending on weather and drying conditions.
- Appropriate preparation of substrate is required for stronger adhesion.

Technical Details	Surface Preparation	Material Application																								
<p>Composition Binder: 20 ± 2 % by mass Glass Beads: 20% by mass minimum Aggregate: 80±2 % by mass (Pigment, Extenders, Glass beads)</p> <p>Performance Data</p> <table border="1"> <thead> <tr> <th></th> <th>White</th> <th>Yellow</th> </tr> </thead> <tbody> <tr> <td>Softening point:</td> <td>≥95°C</td> <td>≥ 95°C</td> </tr> <tr> <td>Luminance factor:</td> <td>≥70</td> <td>≥60</td> </tr> <tr> <td>Heat stability:</td> <td>>65</td> <td>>65</td> </tr> <tr> <td>Flow resistance:</td> <td>≤25</td> <td>≤25</td> </tr> <tr> <td>Skid resistance:</td> <td>≥50 SRT</td> <td>≥45 SRT</td> </tr> <tr> <td>Flash point:</td> <td>260°C</td> <td>260°C</td> </tr> <tr> <td>Density:</td> <td>2.0±0.1</td> <td>2.0±0.1</td> </tr> </tbody> </table> <p>Pigment The white pigment is titanium dioxide (antase or rutile) complying with BS 1851 and its content is such that to give a minimum luminance factor of 70%. Sufficiently heat stable organic pigment is the yellow pigment used. Its content depends on the color required and not to exceed 5% by mass.</p> <p>Extender The pigment is calcium carbonate pretreated from natural chalk.</p>		White	Yellow	Softening point:	≥95°C	≥ 95°C	Luminance factor:	≥70	≥60	Heat stability:	>65	>65	Flow resistance:	≤25	≤25	Skid resistance:	≥50 SRT	≥45 SRT	Flash point:	260°C	260°C	Density:	2.0±0.1	2.0±0.1	<p>The road surface must be dry and free from dust, dirt, grease, salt and any other contamination. The temperature of the road surface must be below 60°C and above 5°C. Road Marking applied to new or abnormally hot bituminous surfaces can become disclosed or obliterated by the transfer of bituminous by vehicle tires. Material must be applied at least 7 days after newly applied asphalt surface and may vary depending on bitumen contents in asphalt and weather conditions.</p> <p>The material can be laid over existing thermoplastic marking, if the original markings are sound. If not old thermoplastic must be removed before applying new material.</p> <p>On badly worn bitumen or concrete, road surface must be treated with primer or other approved material prior to application of thermoplastic material.</p>	<p>Material has to be placed into a pre-heater fitted with mechanical stirrer and the thermometer. When the material has been heated to its application temperature, around 200±20°C, carefully transfer to the application equipment and proceed with use, maximum safe heating temperature of 220°C should not be exceeded. Material may be applied by screed, extrusion and spray method using either machine or hand screed equipment to the following thickness.</p> <p>Screed Lines: 1.5-5.0 mm Sprayed lines(other than yellow): ≥1.5mm Sprayed yellow edge lines: ≥ 0.8mm Extruded lines: 1.5-3.5mm Coverage: 3.kg/m² @ 1.5mm</p> <p>Drop on glass beads, confirming to BS 6088 Class B, may be applied to improve road marking visibility at a rate of 450±50 g/m². Material may be reheated gradually to avoid scorching, and used after solidifying providing the total time in molten state has not exceeded 6 hours.</p> <p>Newly applied road marking must be coned, or blocked by any other means of traffic safety, and should not be subject to any</p>
	White	Yellow																								
Softening point:	≥95°C	≥ 95°C																								
Luminance factor:	≥70	≥60																								
Heat stability:	>65	>65																								
Flow resistance:	≤25	≤25																								
Skid resistance:	≥50 SRT	≥45 SRT																								
Flash point:	260°C	260°C																								
Density:	2.0±0.1	2.0±0.1																								

<p>Binder The binder is plasticized synthetic resin, plasticized natural resins or rosins. The viscosity and wetting properties of binder at the application temperature give a compensation that can be applied satisfactory.</p>		<p>traffic for minimum of 12 hours to achieve the best result.</p>
---	--	--

Aftercare

Under normal traffic conditions with temperature within normal range and periodic rainfall, thermoplastic road marking material is self cleaned and requires no ongoing maintenance.

Available packs and Storage

The product is supplied in powder and/granule form packed in approx. 25kg plastic sacks. The product must be stored in a cool dry and well ventilated place away from source of heat and ignition. Keep the sack closed and handle with care. Under normal circumstances, the material has a shelf life of at least 1 year.

Health and Safety Notes

- When applying paint, wear appropriate eye protection.
- In case of eye contact with product, rinse with plenty of water for at least 10 minutes.
- Don't breathe spray mist or dust.
- Ensure proper ventilation when applying paint.
- If swallowed, it may cause serious damage.
- When empty, don't use its container for edible storage.
- Place out of reach of the children.
- Pregnant women are advised to avoid breathing of paint mist or spray.
- In case of any emergency, undergo medical supervision as soon as possible.

CAUTION: Scraping/sanding off previously painted surfaces may release lead dust or fumes. Lead is highly toxic; take protective measures thoroughly when rubbing off the old surfaces.