

THERMOPLASTIC ROAD MARKING PAINT

PRODUCT CODE: TTP 1 & TTP 2

TECHNICAL DATA SHEET

Product Description	A single pack solvent free coating for road marking and runway surfaces.														
Intended Uses	<ul style="list-style-type: none"> Suitable for use on suitably prepared concrete, bituminous road and runway surfaces. Thermoplastic road marking paint is recommended for situations requiring high performance. 														
Features & Benefits	<ul style="list-style-type: none"> Excellent adhesion on suitably prepared surfaces. Good durability and resistance to abrasion. Suitable for specialized spray application only. Good night visibility and skid resistance. Lead free. 														
Product Information	Appearance	Matt													
	Colours	White (TTP 1) & Golden Yellow SABS B49 (TTP 2)													
	SG at 23 °C	2.06 kg/L (typical)													
	Volume solids	100%													
	Softening point	95 °C													
	Safe Heating Temperature	200 °C Maximum													
	Recommended DFT	1500 µm -2000µm DFT per coat.													
	Recommended WFT	1500 µm -2000µm DFT per coat.													
	Theoretical spreading rate	3.6 kg/m ² at a layer thickness of 1750 µm DFT. (This serves as a guide only)													
	Practical spreading rate	The practical spreading rate will vary depending on the porosity and profile of the substrate, as well the application technique and tools used.													
	TVOC	0 g/ L													
Application Details	Mixing Method	Ready for melting The melted compounds can be applied by suitable spray equipment. (see application on page 2)													
	Application temperature	180 - 200 °C.													
	Thinning	Not required													
	Cleaning	Diesel													
	Drying time	Dry to no pick up: 1 min @ 23 °C													
	Application environment	<table border="1"> <thead> <tr> <th>Surface Temperature</th> <th>Ambient Temperature</th> <th>Relative Humidity</th> </tr> </thead> <tbody> <tr> <td>Min: 10 °C</td> <td>Min: 10 °C</td> <td>Min: 10%</td> </tr> <tr> <td colspan="3">or 2 °C min. above dew point</td> </tr> <tr> <td>Max: 40 °C</td> <td>Max: 40 °C</td> <td>Max: 80%</td> </tr> </tbody> </table>		Surface Temperature	Ambient Temperature	Relative Humidity	Min: 10 °C	Min: 10 °C	Min: 10%	or 2 °C min. above dew point			Max: 40 °C	Max: 40 °C	Max: 80%
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Storage and Packaging	Store away from direct sun, heat, severe cold and wet areas. Packaging: 20kg low melt polyethylene bags.														
Surface Preparation	Ensure that surfaces are dry, sound, and free from dust, dirt, grease and oil before painting.														
	1.	NEW SURFACES													
	1.1	<u>For permanent markings:</u> Ensure that Bituminous surfaces have cured for a minimum of 3 months and concrete substrate has cured for minimum 1 month. NOTE: Paints applied over bituminous surfaces cured in less than 3 months or concrete cured in less than one month are to be regarded as temporary markings. Concrete: Remove laitance and curing aids. Consult PLASCON ADVISORY SERVICE for concrete applications.													
	2.	PREVIOUSLY PAINTED SURFACES													
	2.1	<u>Previously painted surfaces in sound condition:</u> Remove loose and flaking paint back to a sound substrate. Use POLYCELL SUGAR SOAP LIQUID to remove oil, grease and other contaminants. Rinse thoroughly with fresh water and allow to dry. Concrete: Consult PLASCON ADVISORY SERVICE for concrete applications.													

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Application	<ul style="list-style-type: none"> • Thermoplastic road marking paints (TTP 1 & TTP 2) are supplied in 20kg low melt polyethylene bags that may be melted with the product depending on application. • Place a few bags into preheated vessel, fitted with mechanical agitation and temperature control to approximately application temperature. • When material has been heated to the recommended temperature and thoroughly mixed, it can be transferred to the application equipment. • In order to obtain surface reflection, additional Silane coated or silicone free glass beads have to be dropped on.
Cautions	<ul style="list-style-type: none"> • Do not exceed the maximum safe heating temperature or hold the molten product at 200 °C for more than 30 mins. This is potentially dangerous and could lead to discoloration and deterioration of the binder and pigment • Not recommended for friable slurry type surfaces. • Use the prescribed beads for application. • Do not re-heat more than 3 times • Not fuel resistant
Safety Precautions	<ul style="list-style-type: none"> • Always use the CORRECT PROTECTIVE EQUIPMENT DURING HEATING AND APPLICATION. • Keep out of reach of children. • Ensure good ventilation during heating and application • Avoid skin and body contact at all cost when heated – seek immediate medical attention. • Take care to avoid contact with eyes. • Harmful if swallowed. Do not induce vomiting. Seek medical attention. • Refer to Safety Data Sheet for complete information

DISCLAIMER:

The recommendations contained herein are given in all good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

NB: Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used.

NB: TO ORDER: Quote product name, product code number, packaging and colour
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