

PLASTILINE® ThermoPlastic High Tack Penetration Primer

SOLVENT BASED

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Description:

A one component, clear, fast drying, oil based, rubberized primer for alkyd & hydrocarbon thermoplastic markings.

Intended Uses:

PLASTILINE® ThermoPlastic High Tack Penetration Primer is designed to promote strong adhesion of thermoplastic road marking paints on asphalt & concrete/paving or a mixture of both.

It penetrates the substrate to create a durable bond that enhances the longevity of the marking system. This primer is fully compatible with thermoplastic road marking systems, ensuring superior bond strength, high tack & improved durability of the final marking application.

Features & Benefits:

- Excellent adhesion to asphalt.
- Excellent adhesion to concrete/paving.
- Colourless.
- Ensure superior paint adhesion with concrete, asphalt, or bitumen surfaces.
- Easy to use.
- Improves durability of final marking application.

Technical Data:

Product Physical Form	Liquid
Binder Type	Oil based
Colour	Transparent
Appearance	Smooth
Mass Solids	11%
Density (Kg/ Lt @ 23°C)	0.87 ± 0.05
Diluent	Supplied ready for use (Do not thin)
Recommended DFT	10 – 30µm per coat (Dry Film Thickness)
Spreading Rate	• 5 – 10 m²/ Litre per coat, allowance should be made for site application losses & surface profile/porosity • 0.027 – 0.036 Lt/ m² per coat, allowance should be made for site application losses & surface profile/porosity
Number of Coats	1 coat by spray or brush, 2 on highly porous surfaces
Viscosity KU	Low viscosity for high penetration
Method of Application	Spray, brush, or roller
Pack Size	5, 20 & 200 Litre Steel Drums
Storage	Store out of direct sunlight in dry conditions (in a warehouse) between 5°C and 35°C
Shelf Life	12 months when stored as recommended in original un-opened containers. Material should not be used after the shelf-life expiry date. Drying performance and glass bead retention may decrease if shelf life is exceeded.
Tariff Code	HS38069090

TRAFFIC MARKINGS: PRIMERS

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Important Information:

- Always consider a test patch to check suitability & adhesion.
- Always consult with technical department if unsure.
- Technical & application data herein is for the purpose of establishing a general guideline of the coating application procedure.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection & verification of the performance and use of the coating.
- Before starting any project, check weather forecasts. Ensure that application is not conducted if rain is forecasted within 24 hours, or if the area has not experienced a minimum of 48 hours of dry, clear weather following rainfall.

Surface Preparation:

In general, the following guidelines for preparation should be adhered to. Always consult for a detailed specification.

- The areas to be coated should be dry, firm, solid and free from dust, oil, fats, and other contaminants.
- Oil can be removed using **Hydrosolve Degreaser**.
- Fungal growth or algae can be removed using **Fungicidal Wash**.
- Laitance and loose particles must be removed thoroughly i.e., grinding /high pressure cleaning.
- Moisture content of concrete surfaces should not exceed 4%.

Newly Laid Concrete / Asphalt Surfaces:

Premature application to newly laid surfaces can impact the performance & quality of the product.

Newly laid bituminous/asphalt surfaces need to cure for 4 - 6 weeks prior to applying a coating system. Existing chemical additives on the surface of new bituminous/asphalt surfaces such as flux oils & oleiferous separating agents for steel rollers will be detrimental to the adhesion of subsequent coats and can cause discolouration.

Newly laid concrete surfaces need to cure for 4 - 6 weeks prior to applying a coating system. This will provide enough time for excess moisture to leave the substrate & allow excess alkalinity to leach out which can cause blistering, delamination or premature failure of the coating.

A test piece should always be applied, and if any negative results are obtained, the surface should be allowed to weather for an additional 1 to 2 weeks.

Bituminous / Asphalt:

Bituminous/asphalt surfaces must be thoroughly swept prior to the application of a marking system to ensure the removal of all dirt, dust, and contaminants that could compromise the adhesion and performance of the marking system.

Concrete / Cement / Paving:

Surface components that impair adhesion, such as fine mortar layers, concrete slurries & curing compounds must be removed by suitable mechanical methods such as high-pressure cleaning, grinding or blast cleaning. All dust must be removed properly using an industrial vacuum cleaner.

The moisture content (CM-method) of the concrete/cementitious subfloor must be: < 3 - 4 %, < 0.2% Anhydrite, < 2 - 4 % Magnesite before markings can be applied.

The mechanical strength of the subfloor should be: Compression Strength $\geq$ 25 MPa; Tensile Strength > 1.5 MPa. Resp. ASTM C39 & C1583. Ensure that the surface is completely wetted with primer to ensure optimal adhesion of the road paint. The consumption of the primer depends entirely on the porosity of the concrete. The primer should have sufficient time for the water/solvent to evaporate prior to final application of the road paint which is generally around 30 minutes @ 25°C. Generally, once the primed surface is no longer sticky to the touch it is ideal for the

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application of road paint.

Application:

Spray Application	Applied by airless or pneumatic spray application. For airless spray application, a tip or orifice of 12 – 17 thou is recommended. The spraying pressure will vary depending on the thickness of the paint relative to temperature and nozzle size chosen, but typically the pressure should be between 140 bar to 200 bar for perfect atomization. Over pressurizing should avoided as dry spray/dusting will be imminent. If pneumatic spray is used a 1.8 mm to 2.2 mm needle should be used and air pressure adjusted to obtain sufficient atomizing.
Roller/Brush Application	Before application begins, it is important to mix material first.
Thinner	DO NOT THIN. Product is ready for use.
Cleaner	Lacquer Thinner
Work Stoppage	Do not allow material to remain in spray equipment after use; thoroughly flush and clean all equipment with water.
Clean Up	Clean all equipment immediately after use with Lacquer Thinner. It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependent upon the amount sprayed, temperature and elapsed time.

Drying & Overcoating Information	
Touch Dry	5 – 10 minutes at 25°C
Overcoating Time	30 min @ 25°C
Extra Information	-

Systems:

Consult with Specialized Coating System for application specific recommendations.

Safety Information:

- Refer to product SDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection and skin protection.
- Apply in well-ventilated areas.

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