

PRODUCT DATA SHEET

Product Code 5011

MARITHANE 550

HIGH PERFORMANCE PU PAINT

Description	Marithane 550 is High Performance Two Component <i>Acrylic Polyurethane Coating which is cured with aliphatic isocyanate. On curing it gives tough and flexible paint film which provides excellent gloss retention and light fastness.</i>
Uses	Recommended for use in new construction as well as for maintenance purpose. It is suitable for wide range of environments such as Industrial onshore, offshore structures, petrochemical plants, chemical plants, bridges, airports, ports, Thermal power plants and Steel structure for multipurpose indifferent climatic conditions.

PHYSICAL PROPERTIES

Colour	A wide range of colours
Finish	Semi glossy, Smooth and Free from any surface defects
Density	1.21 Kg/Liter
Volume Solid %	55±2
Theoretical Coverage	About 11 Sq. Meter / Liter at 50 Micron DFT(without loss factor)
Flash Point	25 °C
Surface Dry	1 Hours at 30 Degree C
Touch Dry	4.0 Hours at 30 Degree C
Hard Dry	Overnight
Full Cure	7 days
VOC	420 ± 3 Grams /Liter
Shelf Life	One Year when stored in shade below 35 Degree Centigrade.
Service Temperature	100° C.at higher temperature colour/appearance may change.

**APPLICATION
DETAILS**

Mixing Ratio - Base: Hardener	4:1 by Volume
Application Method	Airless Spray, Conv. Spray, Electrostatic Spray, Brush & Roller.
Pot Life	2.0 Hours at 30°C (Pot Life decreases with increase in room temperature)
Nozzle Size	0.017-0.020"
Pressure by Airless Spray	140-160 Bar
Dry Film Thickness (DFT)	40- 60 Microns (viscosity can be adjusted to achieve required DFT but thinning not to exceed more than 15% of thinner No 100)
Wet Film Thickness (WFT)	75- 110 Microns
Over coating Interval	Minimum – 7 Hours and Maximum 4 Weeks

MARIPOXY HIGH SOLID HIGH BUILD EPOXY MASTIC COATINGS

<p>SURFACE PREPARATION</p>	<p>Substrate: The surface to be painted should be free from dirt, dust, oil, grease or any other contaminations. It should be absolutely dry and free from moisture.</p> <p>Primer: Marithane 550 should always be applied over a recommended anti-corrosive primer. The primer surface should be dry and free from all contamination. Marithane 550 must be applied within the recommended over coating intervals</p> <p>Over coating after weathering or ageing: Need to ensure that old coating is fully cleaned and is free from contamination such as oil, grease etc. before application of further coats of Marithane 550.</p>
<p>APPLICATION CONDITIONS</p>	<p><i>PU Paints are very sensitive to moisture and Humidity. High humidity during painting may adversely affect the appearance and performance of PU Paint.</i></p> <p><i>Condensation occurring during or immediately after application may result in a matt finish and an inferior paint film</i></p> <p><i>Minimum temperature for curing of Marithane 550 is Zero °C. However at this temperature there is risk of ice formation which will impact the adhesion of paint film.</i></p> <p><i>During painting need to ensure that surface temperature is at least 3°C above dew point.</i></p> <p><i>The best result is obtained by applying a mist coat of Marithane 550 followed by full coat to achieve required DFT.</i></p>
<p>Thinner</p>	<p><i>Thinner intake will depend upon application conditions, application method and type of object. Depending upon conditions and results to be achieved thinner intake may vary from 5% to 20%.</i></p> <p><i>PU Thinner No. 100 is recommended to thin down the paint to required viscosity.</i></p>
<p>PREVIOUS COAT</p>	<p>Maripoxy HB ZP Primer & , Maripoxy Mastic any other suitable Epoxy Primer.</p>

SUBSEQUENT COAT	None, can be over coated with itself to increase the DFT.
CAUTION	<i>This product must only be thinned using the recommended thinner. The use of alternative thinners can affect the curing mechanism of the coating.</i> <i>This product is not recommended for use in immersion conditions.</i>
SAFETY	Marithane PU Paints are solvent based products, user need to take safety precaution which are applicable to all the petroleum based inflammable products. Use PPF while using PU Paints and follow National Safety Standards for use of PU Paints. Painting should be done in open and ventilated place. Use Foam based fire extinguishers in case of fire. Keep it away from direct fire/ flame and store the product under the shade below 35 degree Centigrade.

The Product is for Industrial use only. Product data given here *is correct to the best of our knowledge but their accuracy may vary depending upon the quality of the substrate, application parameters and atmospheric conditions affecting the performance of the product. Therefore the users are advised to make their own tests to determine the suitability of products for their own purposes under present conditions.*

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