

**PRODUCT DATA SHEET**

Product Code 7600

**MARITHANE HP HS 670**

HIGH PERFORMANCE HIGH BUILD HIGH SOLID LOW VOC PU PAINT

<b>Description</b>	Marithane HPHS 670 is High Performance High Build Low VOC Two Component Acrylic Polyurethane Coating which is cured with aliphatic isocyanate. It provides excellent outdoor durability and high build characteristic imparts good protection against corrosion.
<b>Uses</b>	Recommended for use in new construction as well as for maintenance purpose. It provides higher DFT of up to 100 Microns which enables it to protect steel in the most corrosive environment. Marithane 670 contains anticorrosive <b>Zinc Phosphate</b> pigment which makes it suitable for <b>Direct to Metal (DTM)</b> application and provides good corrosion resistance even without primer.

**PHYSICAL PROPERTIES**

<b>Colour</b>	A wide range of colours
<b>Finish</b>	Semi glossy, Smooth and Free from any surface defects
<b>Density</b>	1.40 Kg/Liter
<b>Volume Solid %</b>	67±2
<b>Theoretical Coverage</b>	About 6.7 Sq. Meter / Liter at 100 Micron DFT (without loss factor)
<b>Flash Point</b>	30 °C
<b>Surface Dry</b>	1.5 Hours at 30 Degree C
<b>Touch Dry</b>	3.5 Hours at 30 Degree C
<b>Hard Dry</b>	Overnight- 12-14 Hours at 30 Degree C
<b>Full Cure</b>	7 days
<b>VOC</b>	320 ± 3 Grams /Liter
<b>Shelf Life</b>	One Year when stored in shade below 35 Degree Centigrade.
<b>Service Temperature</b>	120°C, at higher temperature colour/appearance may change.

**APPLICATION DETAILS**

<b>Mixing Ratio - Base: Hardener</b>	4:1 by Volume
<b>Application Method</b>	Airless Spray and Brush.
<b>Pot Life</b>	1.5 Hours at 30°C (Pot Life decreases with increase in room temperature)
<b>Nozzle Size</b>	0.017-0.022"
<b>Pressure by Airless Spray</b>	170-190 Bar
<b>Dry Film Thickness (DFT)</b>	60- 100 Microns (viscosity can be adjusted to achieve required DFT but thinning not to exceed 5% of thinner No 100)
<b>Wet Film Thickness (WFT)</b>	90- 150 Microns
<b>Over coating Interval</b>	Minimum – overnight

## MARITHANE HPHS 670

### HIGH BUILD & HIGH SOLID PU PAINT

<p><b>SURFACE PREPARATION</b></p>	<p><b>Substrate:</b> The surface to be painted should be free from dirt, dust, oil, grease or any other contaminations. It should be dry and free from moisture.</p> <p><b>DTM:</b> Marithane HPHS 670 contains rust inhibiting pigment <b>Zinc Phosphate</b> and can directly be applied to clean and shot blasted (Sa 2.5) steel substrate to give good corrosion protection and excellent outdoor durability.</p> <p><b>Primer:</b> Marithane HPHS 670 should always be applied over a recommended anti-corrosive primer. The primer surface should be dry and free from all contamination. Marithane 670 must be applied within the recommended over coating intervals</p> <p><b>Over coating after weathering or ageing:</b> 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 HPHS 670.</p>
<p><b>APPLICATION CONDITIONS</b></p>	<p>PU Paints are overly sensitive to moisture and Humidity. High humidity during painting may adversely affect the appearance and performance of PU Paint. Condensation occurring during or immediately after application may result in a matt finish and an inferior paint film</p> <p>Minimum temperature for curing of Marithane 670 is Zero °C. However, at this temperature there is risk of ice formation which will impact the adhesion of paint film. During painting need to ensure that surface temperature is at least 3°C above dew point.</p> <p>The best result is obtained by applying a mist coat of Marithane 670 followed by full coat to achieve required DFT.</p>
<p><b>Thinner</b></p>	<p>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 10%. PU Thinner No. 100 is recommended to thin down the paint to required viscosity.</p>
<p><b>PREVIOUS COAT</b></p>	<p>Direct to Metal, Maripoxy Primer &amp;, Maripoxy Mastic any other Epoxy Primer.</p>
<p><b>SUBSEQUENT COAT</b></p>	<p>None, if needed can be over coated with itself.</p>
<p><b>CAUTION</b></p>	<p>This product must only be thinned using the recommended thinner. The use of alternative thinners can affect the curing mechanism of the coating. This product is not recommended for use in immersion conditions.</p>
<p><b>SAFETY</b></p>	<p>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.</p>

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. Unless agreed upon in writing, we do not accept any liability for the performance of the product. We hereby disclaim any warranties or representations, liability, including but not limited to negligence, injury, consequential losses or damages arising from the use of the Products as recommended above. Product data are subject to change without notice.