

## Product Information

### Product Description:

FP500 is a grey 2K polyurethane primer DTM (direct to metal) with very good corrosion protection & adhesion properties with air- and force dry capabilities. This product is recommended for wet on wet application on larger surfaces.

### Preparation:

For more detailed information go-to TI-Substrate and Pre-treatment on Colour Retrieval System (CRS) or website [www.valsparindustrialmix.com](http://www.valsparindustrialmix.com).

**Substrates:** Iron, steel, cast iron, galvanized steel, aluminum, glass fiber reinforced plastics.  
**Plastic:** FP600 Plastic Primer (adhesion test recommended)  
**Other:** Solvent resistant surfaces, cleaned/sanded/hardened original and cured Coatings.  
**Iron/steel:** Abrasive shot blasting is recommended or dry sanding P80 – P180  
**Aluminum:** P180 – P240  
**Galvanized:** Sweep blasting recommended  
**Paint finishes:** P240 – P320 (Please, regularly check and change abrasive paper)

**Cleaning:** Surface must be dry and free from any contamination, e.g. oil, grease & release agents. Use AD690 Solvent Degreaser for metal substrate and paint finishes.

### Material Description: FP500

Application Method	Minimum DFT $\mu\text{m}$	Maximum DFT $\mu\text{m}$	Minimum WFT $\mu\text{m}$	Maximum WFT $\mu\text{m}$ *
Spraying equipment	30 $\mu\text{m}$	80 $\mu\text{m}$	40 $\mu\text{m}$	110 $\mu\text{m}$

\* Higher thicknesses possible if given extended drying times






**Topcoat:** Recoat with a range of Valspar Industrial Mix PU Topcoats:  
 TB500/520 PU Topcoat also  
 TB510/540/543/TW518/TY518 PU Topcoat DTM  
 For more detailed information go-to Technical Data Sheet Tx5xx.

### Physical properties:

Chemical base	Polyurethane
Density (kg/l)	1,436 (Binder)
Volume solids (%)	58.7%
Weight Solids (%)	75.0%
Flash point	27°C
Pot life (+20°C)	Approx. 2 – 3 hours
Shelf life	Min. 24 month under normal storage conditions and unopened tins
Coverage (m <sup>2</sup> )	Approx. 8.5m <sup>2</sup> 40 $\mu\text{m}$ (DFT)
Gloss	Semi gloss
Color	Grey
Temperature Stability	Dry Heat up to 140°C
VOC (g/l)	Max. 470g/l see CRS (VOC: 2004/42/II(b)(c)540g/l)
Processing temperature	+10°C till max. +40°C, max. Humidity 85%

## Application Data

	<b>Preparation/ Cleaning:</b>	<p><b>All surfaces must be properly shot blast or sanded and cleaned</b></p> <p>Abrasive blast to EN ISO 12944, part 4 (SA 2.5) with a uniform blast profile of 20 – 50µm.</p> <p>Dry sanding Steel: P80 – P180          Aluminum: P180 – P240          Galvanized: Sweep blasting recommended          Paint finishes: P240 – P320          Cleaning: AD690 Solvent Degreaser (metal surface &amp; paint finishes)          Surface must be dry and free from any contamination, e.g. oil, grease</p>	
	<b>Handling:</b>	<p><b>Before use/spraying:</b></p> <ol style="list-style-type: none"> <li>Mix mechanically (paint shaker/ mechanical stirrer)</li> <li>Add Activator and Reducer</li> <li>Stir this mixture well with a mixing stick or a (pneumatic) stirrer</li> </ol>	
	<p><b>Mixing ratio with Activator and Reducer:</b> (By volume)</p> <p><b>Mix stick:</b></p>	<p>FP500 PU <b>Primer</b> DTM grey          AU500 PU Activator          RS603 Universal Reducer Fast or          RS605 Universal Reducer Medium or          RS607 Universal Reducer Slow or          RS609 Universal Reducer Ultra Slow</p> <p>Use the Mixing stick  <b>M4 8:1</b> (74-204 = 8:1/10:1) or  <b>M6 Universal cm-stick</b> (74-206 standard) / <b>M7</b> (74-207 large)</p>	<p>8 parts          1 part</p> <p>add 10 – 25%</p>
	<p><b>Faster process of drying:</b></p>	AA600 Accelerator	+ 3 – 5%
	<p><b>Viscosity:</b>          18 – 30 sec. (DIN4/20°C)</p>		
	<p><b>Gravity or Suction Feed:</b>          Nozzle set          Spray gun “High pressure”          Spray gun “Reduce pressure”          HVLP (Air cap pressure)          Airless/Airmix          Pressure Pot</p>	<p>1.4 – 1.7 mm          3.0 – 4.5 bar (42 – 65 psi)          1.5 – 2.5 bar (21 – 36 psi)          0.7 bar (10 psi) maximum          Not recommended          1.0 – 1.5mm</p>	
	<p><b>Application:</b></p> <p><b>Film Thickness:</b> (recommended 40 – 80µm)</p>	<p><b>Option 1:</b>          ½ coat          followed by 1 full coat          30 – 50µm (DFT)</p>	<p><b>Option 2:</b>          1 full closed coat          followed by 1 full closed coat          60 – 100µm (DFT)</p>
	<p><b>Between coats at 20°C:</b></p> <p><b>Before baking at 20°C:</b></p>	<p>5 minutes</p> <p>10 minutes</p>	<p>5 – 10 minutes</p> <p>10 minutes</p>
	<p><b>Clean up:</b> (Check the local regulations!)</p> <p>RS605/607/609 Universal Reducer or          Gun cleaner (solvent)</p>		

	<p><b>Air-dry at 20°C:</b></p> <p><b>Force-dry:</b></p>	<p><b>Dust Free:</b> 25 – 30 minutes</p> <p><b>Dry:</b> 8 – 10 hours</p> <p>30 minutes / 60°C object temperature</p>
	<p><b>IR-dry:</b></p>	<p>12 – 15 minutes                  (The panel must not exceed 90°C)</p>
	<p><b>Use suitable respiratory protection (air fed respirator is strongly recommended).</b></p>	
	<p><b>Recoatable (PU Topcoat):</b></p> <p>After min. 1hr/20°C &lt;40µm                  After min. 3hr/20°C 40-80µm</p>	<p>TB500/510/520/540/543/TW518/TY518                  (See Technical Data Sheet)</p> <p>After 24 hours: Sanding required (P280-P360 or scuff pad)</p>
	<p><b>Precautions:</b> During application all health and safety measures referring to the use and handling of coating materials are to be observed, e. g. existing regulations issued by the trade associations in the Chemical Industry. For Health and Safety information please refer the Material Safety Datasheet (MSDS). Information also available on our webpage: <a href="http://www.valsparindustrialmix.com">www.valsparindustrialmix.com</a></p> <p><b>Note:</b> The products listed are intended only for the professional user and for professional use. All recommendations given in writing on the use of our products to customers or users are not binding and do not give reasons for secondary obligations resulting from the bill of sale. Every care is taken to ensure that the technical information provided is accurate and up to date according to the present state of knowledge in science and our experience. These recommendations do not, however, exempt the customer from autonomously checking whether our products are suitable for the intend purpose. The durability of the coating system largely depends on the thorough preparation of the surface. Furthermore our uniform terms of delivery and payment are applicable.</p> <p>With the publication of this Technical Data Sheet all previous versions regarding this product are no longer valid.</p>	