

## Product Information

### Product Description:

TP300 Synthetic Topcoat High Gloss with 80% Binder + 20% Color Toner, optional (70% Binder - 30% Color Toner on low opacity colors). TB300 is specially developed for Industrial OEM and aftermarket repairs, easy to apply with excellent air- and force dry capabilities. All Color Toners are chromate and lead free.

### Preparation:

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

### Substrates:

**Indoor:** Iron, steel, cast iron, galvanized steel, aluminum and glass fiber reinforced plastics (GRP).  
**Outdoor:** For metal substrates use FP300/PB300 Synthetic Primer or FP400/401 Epoxy Primer  
**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:** P280 – P360 (Please, check and change regularly sanding 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: TB300 Synthetic Topcoat

Application Method	Minimum DFT $\mu\text{m}$	Maximum DFT $\mu\text{m}$	Minimum WFT $\mu\text{m}$	Maximum WFT $\mu\text{m}$ *
Spraying equipment (not-including airless/airmix)	40 $\mu\text{m}$	50 $\mu\text{m}$	55 $\mu\text{m}$	70 $\mu\text{m}$

\* Higher thicknesses possible if given extended drying times

**Additive:** This product can be mixed with AD300 Matting Agent (TDS AD300) and AD309 Synthetic High Build Additive (TDS AD309).





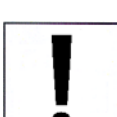

**Note:** RS300 Reducer or AS300 Synthetic Activator can be used. If you use AS300 Synthetic Activator you improve the curing and the chemical resistance.

### Physical properties:

Chemical base	Synthetic
Density (kg/l)	0,947
Volume solids (%)	47.9%
Weight Solids (%)	54.0%
Flash point	29.0°C
Pot life (+20°C)	Approx. 24 hours (as 1K product)
Shelf life	Min. 24 month under normal storage conditions and unopened tins
Coverage (m <sup>2</sup> )	Approx. 9.5 – 10 m <sup>2</sup> 40 $\mu\text{m}$ (DFT)
Gloss	High Gloss >80GU/60°
Color	Binder Transparent
Temperature Stability	Dry Heat up to 120°C
VOC (g/l)	Max. 580g/l see CRS (VOC: 2004/42/IIB(d)420g/l)
Processing temperature	+10°C till max. +40°C, max. Humidity 85%

## Application Data

	<b>Preparation/ Cleaning:</b>	<b>All surfaces must be properly shot blast or sanded and cleaned</b> Abrasive blast to EN ISO 12944, part 4 (SA 2.5) with a uniform blast profile of 20 – 50µm. Dry sanding Steel: P80 – P180 Aluminum: P180 – P240 Galvanized: Sweep blasting recommended Paint finishes: P280 – P360 Cleaning: AD690 Solvent Degreaser (metal surface & paint finishes) Surface must be dry and free from any contamination, e.g. oil, grease		
	<b>Handling:</b>	<b>Color preparation:</b> 1. Stir binder until homogeneous 2. Add Color Toners 3. Mix mechanically (paint shaker/ mechanical stirrer)	<b>Before use/spraying:</b> 1. Mix mechanically (paint shaker/ mechanical stirrer) 2. Add Activator and/or Reducer 3. Stir this mixture well with a mixing stick or a (pneumatic) stirrer	
	<b>Mixing ratio with Color Toner, and Synthetic dryer:</b> (By volume)	TB300 Synthetic Topcoat <b>Binder</b> CT Range of VIM Color Toners AA300 Synthetic Dryer	80 parts 20 parts or 3 parts (3%)	70 parts 30 parts 3 parts (3%)
For mixing machine users:		For mixing formula's see VIM CRS	(By weight)	
	<b>Mix ratio with Reducer: (4:1)</b>	TB300 Synthetic <b>Topcoat</b> RS300 Synthetic Reducer	100 parts max. 30 parts	
Possibility: 	<b>Mix ratio with Activator and Reducer (4:1 max. 10%)</b>	TB300 Synthetic <b>Topcoat</b> AS300 Synthetic Activator RS300 Synthetic Reducer	100 parts max. 25 part add max. 10%	
	<b>Mix stick:</b>	Use the Mixing stick <b>M2 4:1</b> (74-202 = 3:1/4:1) or <b>M6 Universal cm-stick</b> (74-206 standard) / <b>M7</b> (74-207 large)		
	<b>Viscosity:</b> 18 – 24 sec. (DIN4/20°C)			
	<b>Gravity or Suction Feed:</b> Nozzle set Spray gun "High pressure" Spray gun "Reduce pressure" HVLP (Air cap pressure) Airless/Airmix Pressure Pot	1.3 – 1.6 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		
	<b>Application:</b>	1 closed coat Followed by 1 full coat		
	<b>Film Thickness:</b>	(recommended 40 – 50µm)		
	<b>Between coats at 20°C:</b>	5 – 10 minutes		
	<b>Before baking at 20°C:</b>	10 minutes		

	<p><b>Clean up:</b>                  (Check the local regulations!)</p>	<p>RS300 Synthetic Reducer, RS60x Universal Reducer or                  Gun cleaner (solvent)</p>
	<p><b>Air-dry at 20°C:</b></p>	<p><b>Dust Free:</b> 20 – 30 minutes  <b>Dry to assembly:</b> 3 – 5 hours  <b>Dry:</b> 16 – 24 hours</p>
	<p><b>Force-dry:</b></p>	<p>20 - 30 minutes / 60°C object temperature</p>
	<p><b>IR-dry:</b></p>	<p>10 – 15 minutes                  (The panel must not exceed 90°C)</p>
	<p><b>Use suitable respiratory protection (air fed respirator strongly recommended).</b></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>	