

INDUSTRIAL MIX

EMEAI Valspar bv Zuiveringweg 89 8243 PE Lelystad The Netherlands Tel. +31 (0) 320292200 www.valsparindustrialmix.com

TB500 PU Topcoat Binder Performance High Gloss

### TB500 / UK

# **Product Information**

#### **Product Description:**

TB500 PU Topcoat Binder Performance High Gloss with 70% Binder - 30% Color is a two-component high solid polyurethane topcoat with excellent gloss and nice levelling. TB500 is especially developed for Industrial OEM. Fleet and aftermarket repairs, with very good air- and force-dry capabilities and provides excellent UV protection. All Toners are chromate and lead free. TB500 is a **low VOC** <420g/l product.

#### Preparation:

For more detailed information go-to TI-Substrate and Pre-treatment on Color Retrieval System (CRS) or website www.valsparindustrialmix.com.

#### Substrates:

Cleaning	Surface must be dry and free from any contamination or a cill groace release
Advice:	We suggest using <b>dry sanding</b> by Orbital sander!
Wet sanding:	P600 – P1000
Note:	Please, check and change abrasive paper regularly as required
Dry sanding:	P320 – P400 eccentrically machine
	coatings.
Other:	test recommended). Solvent resistant surfaces, cleaned/sanded/hardened original and cured
Surfaces coated with Primers:	FP400/401/440 Epoxy Primer, FP500/PB500/PB500-S PU Primer DTM and FP510/511 HS Surfacer. On plastic parts use FP600 Plastic Primer (adhesion
Substrates:	

Cleaning:Surface must be dry and free from any contamination, e.g. oil, grease, release<br/>agents, use AD690 Degreaser Solvent Based.

Material Description: TB500					
Application Method	Minimum DFT µm	Maximum DFT µm	Minimum WFT µm	Maximum WFT µm *	
Spraying equipment (not-including airless/airmix)	45µm	70µm	55µm	90µm	

\* Higher thicknesses possible if given extended drying times

Physical properties:	
Chemical base	Polyurethane
Density (kg/l)	1,001 (Binder)
Volume solids (%)	53.2%
Weight Solids (%)	59.0%
Flash point	28.0°C
Pot life (+20°C)	Approx. 1 – 2 hours
Shelf life	Min. 24 month under normal storage conditions and unopened tins
Coverage (m <sup>2</sup> )	Approx. 8.5m <sup>2</sup> /L 40µm (DFT)
Gloss	High Gloss >90 GU/60°
Color	Binder Transparent
Temperature Stability	Dry Heat up to 140°C
VOC (g/l)	Max. 420g/I see CRS (VOC: 2004/42/IIB(d)420g/I)
Processing temperature	+10°C till max. +40°C, max. Humidity 85%



EMEAI Valspar bv Zuiveringweg 89 8243 PE Lelystad The Netherlands Tel. +31 (0) 320292200 www.valsparindustrialmix.com

# TB500 PU Topcoat Binder Performance High Gloss

### TB500 / UK

# **Application Data**

7//////////////////////////////////////	<b>_</b>				
	Preparation/ Cleaning:	Dry sanding: Wet sanding: Cleaning:			
	Handling:	2. Add Color Tor	til homogeneous ners ælly (paint shaker/	<ul> <li>Before use/spraying:</li> <li>1. Mix mechanically (paint shaker/ mechanical stirrer)</li> <li>2. Add Activator and Reducer</li> <li>3. Stir this mixture well with a mixing stick or a (pneumatic) stirrer</li> </ul>	
	Mixing ratio w		TB500 PU Topcoat Binder	Performance	70 parts
	Toner: (By volume)		CT Range of VIM Color Toners		30 parts
	For mixing ma	chine users:	For mixing formula's see VIM CRS		(By weight)
	Mixing ratio with Activator and Reducer: (By volume)		TB500 PU <b>Topcoat</b> Binder Performance AU500 PU Activator or AU577 HS Activator Extra Fast or AU576 HS Activator Fast or AU575 HS Activator Medium or AU574 HS Activator Slow RS603 Universal Reducer Fast or RS605 Universal Reducer Medium or RS607 Universal Reducer Slow or RS609 Universal Reducer Ultra Slow		4 parts 1 part Max. 5%
	Faster process of drying: Mix stick:		AA600 Accelerator (Advice AU500)		Max. 3%
			Use the Mixing stick M2 4:1 (74-202 = 3:1/4:1) or M6 Universal cm-stick (74-206 standard) / M7 (74-207 large)		
S	<b>Viscosity:</b> 20 – 24 sec. (D	DIN4/20°C)			
	Gravity or Suction Feed: Nozzle set Spray gun "High pressure" Spray gun "Reduce pressure" HVLP (Air cap pressure) Airless/Airmix Pressure Pot		1.3 – 1.4 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 – 1.3mm		
	Application: Film Thicknes (recommended		<b>Option 1:</b> <sup>1</sup> / <sub>2</sub> coat followed by 1 full coat 40 – 55µm (DFT)	follow	n <b>2:</b> closed coat ed by 1 full closed coat 70μm (DFT)



## TB500 PU Topcoat Binder Performance High Gloss

### TB500 / UK

	Between coats at 20°C:	5 minutes		5 – 10 minutes	
/t/t/		5 minutes			
	Before baking at 20°C:	10 minutes		10 minutes	
$\mathbf{\nabla}$	Clean up:	RS605/607/609 Universal Reducer or Gun cleaner (solvent)			
	(Check the local regulations!)				
	Drying and curing is according	ng to use of the wide range of Activator and Reducer.			
	Air–dry at 20°C:	Dust Free:	30 – 45 minutes		
		Dry to assembly: Dry:	5 – 10 hours 10 – 16 hours		
	Force–dry at 60°C:	-	20 – 45 minutes	(object temperature)	
	IR–dry:		8 – 14 minutes		
			(The panel mus	t not exceed 90°C)	
	Use suitable respiratory protection (air fed respirator strongly recommended).				
	Polish:	Polish:Dust and minor imperfections can be polished out after the stated air-dry times have been reached, or after a full bake at 60°C object temperature, followed by a cool down of the object to ambient temperature. Before polishing, make sure the surface is well cured. Follow the instructions of the polish manufacture.			
$\Theta$					
	Precautions: During applicati	on all health and s	afety measures r	eferring to the use and handling of	
	<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: www.valsparindustrialmix.com				
	Note: 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.				
	With the publication of this Technical Data Sheet all previous versions regarding this product are no longer				
	valid.				