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PB500 PU Primer Binder DTM (Sealer - transparent and tintable) PB500-S / UK

Product Information

Product Description:
PB500 is a transparent 2K Polyurethane non-sanding Sealer and adhesion promotor on OEM and cured topcoat finishes. PB500 can be tinted with VIM Color Toners according to CRS by 20% of volume. This product complies to current European VOC legislation <540g/L (VOC: 2004/42/IIB(c)540g/L).
The wide range of HS Activators and Universal Reducers offers many options to obtain the best result for ambient temperature and surface areas. The sealer is easy to spray and can be recoated without sanding after 30 minutes up to 48 hours.

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

Substrates: Painted metal objects with good adhesion, also on e-coated and primer surfaces, solvent resistant surfaces, hardened/cleaned sanded original and cured coatings.

Caution: Unknown substrates (paint surfaces, e.g. acrylic, powder coatings) first do an adhesion & solvent test, exercise caution when over coating.

Paint finishes: P320 – P400

Note: Please, regularly check and change abrasive paper as required

Cleaning: Surface must be dry and free from any contamination, e.g. oil, grease & release agents. Use AD690 Degreaser Solvent Based

Material Description: PB500		
Application Method	Minimum DFT µm	Maximum DFT µm
Spraying equipment	25µm	40µm

* Higher thicknesses require extended drying times

Recoating
Topcoat: VOC compliant: TB500
Industrial: TB510/511/512/520/530/532
More detailed information go-to: Technical Data Sheet.

Physical properties:

Chemical base	Polyurethane
Density (kg/l)	1,368 (only Binder)
Volume solids (%)	58.5%
Weight Solids (%)	74.0%
Flash point	31°C
Pot life (+20°C)	Approx. 1-3 hours depending on speed of Activator/Reducer used
Shelf life	Min. 24 months under normal storage conditions and unopened tins
Coverage (m²)	Approx. 8.5m²/L at 40µm DFT
Gloss	Semi Matt
Color	Grey Transparent
Temperature Stability	Dry Heat up to 140°C
VOC (g/l) (incl. toner)	Max. 490 g/l see CRS (VOC: 2004/42/IIB(c)540g/l)
Processing temperature	+10°C till max. +40°C, max. Humidity 85%

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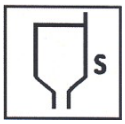
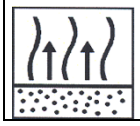
Application Data

 	**Preparation/ Cleaning:**	**All surfaces must be properly sanded and cleaned.** Paint finishes: P320 – P400 Cleaning: AD690 Degreaser Solvent Based Surface must be dry and free from any contamination, e.g. oil, grease	
	**Handling:**	**Color preparation:** 1. Stir binder until homogeneous 2. Add color toners according CRS 3. Mix mechanically (paint shaker/ mechanically stirrer	**Before use/spraying:** 1. Mix mechanically (paint shaker/ mechanically stirrer) 2. Add Activator and Reducer 3. Stir this mixture well with a mixing stick or a (pneumatic) stirrer
	**Transparent Version:**	Use only PB500 Primer Binder DTM	100 parts
	Mixing ratio with Color toner: (By volume)	PB500 PU Primer Binder DTM tintable CT101 – CT142 of VIM Color toners	80 parts 20 parts
	For mixing machine users:	OEM Formulas see VIM – CRS	(By weight)
 	**Mixing ratio with Activator and Reducer:** (By volume)	PB500 PU Primer Binder DTM AU500 PU Activator or AU577 HS Activator Very Fast or AU576 HS Activator Fast or AU575 HS Activator Medium or AU574 HS Activator Slow RS603/605/607/609 Universal Reducer	8 parts 1 part add 25 – 35%
	Faster process op Drying:	AA600 Accelerator	max. 3%
	Mix stick:	Use the Mixing stick **M4 8:1** (74-204 = 8:1/10:1) or **M6 Universal cm-stick** (74-206 standard) / **M7** (74-207 large)	
	**Viscosity:** 18 – 22 sec. (DIN4/20°C)		
	**Gravity or Suction Feed:** Nozzle set Spray gun (HP) Spray gun (RP) HVLP (Air cap pressure) Airless/Airmix Pressure Pot	 1.4 – 1.5 mm 3.0 – 4.5 bar (42 – 65 psi) 1.5 – 2.0 bar (21 – 29 psi) 0.7 bar (10 psi) maximum Not recommended 1.0 – 1.3 mm	
 	**Application:** **Film Thickness:** (recommended 25–40µm) **Flash-off**:	**Option 1:** 1 full coat Max. 40µm (DFT) 30 Min. – respray the Sealer with recommended PU topcoat	

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	**Clean up:** (Check the local regulations!)	RS605/607/609 Universal Reducer or Gun cleaner (solvent)	
	**Dry Times:**	Air–dry at 20°C Dust-free: Force–dry 60°C:	 Approx. 30 minutes Not recommended as Sealer!
	*Drying time is dependent on color, layer thickness, and speed of Activator and Reducer used.		
	IR–dry:	Not recommended as Sealer!	
	**Use suitable respiratory protection (air fed respirator is strongly recommended).**		
	**Recoating time:** **Recommended:** **Topcoat:**	1 Layer Sealer Application – Flash-off PB500-S sprayed up to 40µm can be recoated with recommended Topcoat after 30 minutes at 20°C. This Primer can be recoated within 48 hours – after that time, sanding is required. TB500/510/511/512/520/530/532 PU Topcoat (See Technical Data Sheet)	

Precautions: 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 Safety Datasheet (SDS). Information also available on our webpage: www.valsparindustrialmix.com/emea/en/

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.