

Product Information

Product Description:

PB500 is a transparent 2K Polyurethane non-sanding isolating Sealer and as adhesion promoter on OEM and cured topcoat finishes. PB500 can be tinted with VIM color toners as wet on wet primer/sealer according the 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 Universal Reducers (RS603 to RS609) can be mixed to obtain the best result for the ambient temperature and surface area.

Preparation:

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

- Substrates:** Painted objects with good adhesion, also on e-coated and primer surfaces, solvent resistant surfaces, hardened/cleaned/scuffed or sanded original and cured coatings.
- Caution:** Unknown substrates (paint surfaces, e.g. acrylic, powder coatings ...) first do an adhesion test, & solvent test...exercise further caution when over coating 1K substrates incase of shrinkage.
- Paint finishes:** P280 – P360 eccentrically machine (Please, check and change abrasive paper regularly as required) or prepare by cleaning (Degreaser) and scuffing with very fine scuff pad (grey or gold).
- Cleaning:** Surface must be dry and free from any contamination, e.g. oil, grease, release agents. Use AD690 Solvent Degreaser for existing paint finishes.

Material Description: PB500 Primer Binder (Sealer / tintable sealer)

Application Method	Minimum DFT µm	Maximum DFT µm	Minimum WFT µm	Maximum WFT µm
Spraying equipment	20µm	40µm	30µm	55µm






Recoating: Recoat from a range of Valspar Industrial Mix PU Topcoats: TB500/510/520/540/543/TW518TY518. More detailed information go-to Technical Data Sheet TB500/510/520/540/543/TW518TY518.

Physical properties:

Chemical base	Polyurethane
Density (kg/l)	1,368 (Binder)
Volume solids (%)	58.5%
Weight Solids (%)	74.0%
Flash point	31°C
Pot life (+20°C)	Approx. 2 – 3 hours
Shelf life	Min. 24 month under normal storage conditions and unopened tins
Coverage (m ²)	Approx. 8.5m ² 40µm (DFT)
Gloss	matt
Color	Binder Transparent
Temperature Stability	Dry Heat up to 140°C
VOC (g/l)	Max. 490g/l see CRS (VOC: 2004/42/IIB(c)540g/l)
Processing temperature	+10°C till max. +40°C, max. Humidity 85%

Application Data

	Preparation/ Cleaning:	All surfaces must be properly sanded and cleaned Paint finishes: P280 – P360 or Scuff pad – very fine with/without Degreaser Cleaning: AD690 Solvent Degreaser 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 3. Mix mechanically (paint shaker/ mechanical stirrer)	Before use/spraying: 1. Mix mechanically (paint shaker/ mechanical stirrer) 2. Add Activator and Reducer 3. Stir this mixture well with a mixing stick or a (pneumatic) stirrer
	Transparent version: Colour version: (By volume)	Use only PB500 Primer Binder DTM PB500 PU Primer Binder DTM tintable CT Range of VIM Color Toners	100 parts 80 parts 20 parts
	Mixing ratio with Activator and Reducer: (both versions) (By volume)	PB500 PU Primer/Sealer DTM AU500 PU Activator RS603 Universal Reducer Fast or RS605 Universal Reducer Medium or RS607 Universal Reducer Slow or RS609 Universal Reducer Ultra Slow	8 parts 1 part add 25 – 35%
	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)	
	Faster process of drying:	AA600 Accelerator	+ 3 – 5%
	Viscosity: 18 – 22 sec. (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 – 1.2 mm	
	Application: Film Thickness:	1 full coat 20 – 40µm (DFT)	
	Clean up: (Check the local regulations!)	RS605/607/609 Universal Reducer or Gun cleaner (solvent)	

	<p>Air-dry at 20°C:</p> <p>Force-dry:</p>	<p>Dust Free: 25 – 30 minutes</p> <p>Dry: 2-4 hours</p> <p>Not recommended</p>
	<p>IR-dry:</p>	<p>Not recommended</p>
	<p>Use suitable respiratory protection (air fed respirator strongly recommended).</p>	
	<p>Recoatable:</p> <p>After 45 minutes/20°C</p>	<p>TB500/510/520/540/543/TW518/TY518 (See Technical Data Sheet)</p> <p>After 24 hours: Sanding required (P280-P360 or grey scuff pad)</p>
	<p>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 Material Safety Datasheet (MSDS). Information also available on our webpage: www.valsparindustrialmix.com</p> <p>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.</p> <p>With the publication of this Technical Data Sheet all previous versions regarding this product are no longer valid.</p>	