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

PB300 Synthetic Primer Binder DTM (Tintable) PB300 / AU

Product Information

Product Description:
PB300 is a tintable Synthetic Primer DTM (direct to metal) with good corrosion protection & adhesion properties with air- and force dry capabilities. Add 20% Color Toner to 80% PB300 Synthetic Primer Binder to create any color. All Toners are chromate and lead free. This product is recommended for wet on wet application.

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

Substrates:

	Iron, steel, cast iron, galvanized steel, aluminum, glass fiber reinforced plastics.
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, check and change abrasive paper regularly as required)

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: PB300				
Application Method	Minimum DFT µm	Maximum DFT µm	Minimum WFT µm	Maximum WFT µm *
Spraying equipment (not-including airless/airmix)	30µm	80µm	40µm	110µm

* Higher thicknesses possible if given extended drying times

Recoating: Can be recoated with TB300 Synthetic Topcoat also in combination with AD300 matting agent / AD309 Synthetic High Build Additive.
For more detailed information go-to Technical Data Sheet (TB300/AD300/AD309).

Physical properties:

Chemical base	Synthetic
Density (kg/l)	1,455 (Binder)
Volume solids (%)	51.0%
Weight Solids (%)	72.0%
Flash point	27°C
Pot life (+20°C)	Approx. 24 hours (as 1K product)
Shelf life	Min. 24 month under normal storage conditions and unopened tins
Coverage (m²)	Approx. 9.5 – 10 m² / 40µm (DFT)
Gloss	matt
Color	Binder Transparent
Temperature Stability	Dry Heat up to 140°C
VOC (g/l)	Max. 510g/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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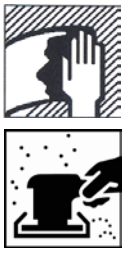
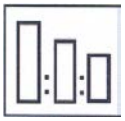
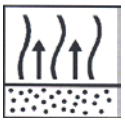
Application Data

	**Preparation/ Cleaning:**	**All surfaces must be properly shot blast or sanded and cleaned** Abrasive blast to EN ISO 12944, part 4 (SA 2.5) with a uniform blast profile of up to 30µm. Dry sanding Steel: P80 – P180 Aluminum: P180 – P240 Galvanized: Sweep blasting recommended Paint finishes: P240 – P320 Cleaning: AD690 Solvent Degreaser (metal surface & paint finishes) 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 Reducer 3. Stir this mixture well with a mixing stick or a (pneumatic) stirrer
	**Mixing ratio with Color Toner:** (By volume)	PB300 Synthetic Primer **Binder** DTM tintable CT Range of VIM Color Toners	80 parts 20 parts
	For mixing machine users:	For mixing formula's see VIM CRS	(By weight)
	**Mixing ratio with Reducer:** (By volume)	PB300 Synthetic **Primer** DTM (colored) RS300 Synthetic Reducer	100 parts 15 – 30 parts
	**Mix stick:**	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)	
	**Viscosity:** 20 – 28 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	 1.4 – 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	
	**Application:** **Film Thickness:** (recommended 40 – 60µm)	**Option 1:** 1 closed coat or ½ coat followed by 1 full coat 25 – 40µm (DFT)	**Option 2:** 1 full closed coat followed by 1 full closed coat 40 – 60µm (DFT)
	**Between coats at 20°C:** **Before baking at 20°C:**	5 minutes 10 minutes	5 – 10 minutes 10 minutes
	**Clean up:** (Check the local regulations!)	RS300 Synthetic-, RS605/607/609 Universal Reducer or Gun cleaner (solvent)	

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	**Air–dry at 20°C:**	**Dust Free:** 20 – 30 minutes **Dry:** 6 – 8 hours
	Force–dry:	30 minutes / 60°C object temperature
	**IR–dry:**	10 – 12 minutes (The panel must not exceed 90°C)
	**Use suitable respiratory protection (air fed respirator strongly recommended).**	
	**Recoatable:** After min. 1hr/20°C <40µm	TB300 / TB300 + AD300 / TB300 + AD309 Synthetic Products (See Technical Data Sheet) After 48 hours: Sanding required (P280-P360 or grey scuff pad)
	**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	
	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.	