

Product Information

Product Description:

AD300 Synthetic Matting Agent is specially developed for the reduction of gloss in combination with TB300 Synthetic Topcoat High Gloss. Max.30% AD300 Synthetic Matting Agent can be added to TB300 80% Binder + 20% Color Toner optional 70% Binder - 30% Color Toner (on low opacity colors). By adjusting the added % of Synthetic Matting Agent the gloss level of TB300 Synthetic Topcoat High Gloss can be reduced from High Gloss to Semi Gloss or Matt. For Machinery, Industrial OEM and aftermarket repairs, easy to apply. All Color Toners are chromate and lead free.

Air drying is recommended, force-drying will result in a higher gloss finish. Selection of hardener, reducer & color, can affect viscosity, flash-off time and thickness, this will also have an influence on the end gloss result too.

Preparation:

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

Substrates:

Indoor: Iron, steel, cast iron, galvanized steel, aluminum and glass fiber reinforced plastics.
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, 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 Solvent Degreaser for metal substrate and paint finishes.

Material Description: TB300 Synthetic Topcoat with AD300 Synthetic Matting Agent

Application Method	Minimum DFT μm	Maximum DFT μm	Minimum WFT μm	Maximum WFT μm *
Spraying equipment (not-including airless/airmix)	40 μm	50 μm	55 μm	70 μm







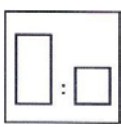


* Higher thicknesses possible if given extended drying times



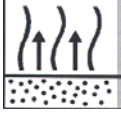




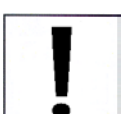
Note: RS300 Reducer or AS300 Synthetic Activator can be used. AS300 Synthetic Activator will improve the curing and the chemical resistance.

Physical properties:

Chemical base	Synthetic
Density (kg/l)	1,022 (Additive)
Volume solids (%)	37.4%
Weight Solids (%)	54.0%
Flash point	27.5°C
Pot life (+20°C)	Approx. 3 – 4 hours
Shelf life	Min. 24 month under normal storage conditions and unopened tins
Coverage (m ²)	Approx. 8.5m ² 40 μm (DFT)
Gloss	Semi Gloss > 35GU/60° (see Matrix TB300 with AD300)
Color	white
Temperature Stability	Dry Heat up to 140°C
VOC (g/l)	Max. 490g/l see CRS (VOC: 2004/42/IIB(d)420g/l)
Processing temperature	+10°C till max. +40°C, max. Humidity 85%

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 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					
	Handling:	Color preparation: 1. Stir binder until homogeneous 2. Add Color Toners 3. Mix mechanically (paint shaker/ mechanical stirrer) 4. Add Matting Agent 5. Mix mechanically (like No. 3.)			Before use/spraying: 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		
	Mixing ratio with Color Toner, Matting Agent and Synthetic dryer: (By volume) For more matte finish		TB300 Synthetic Topcoat Binder CT Range of VIM Color Toners AA300 Synthetic Dryer AD300 Synthetic Matting Agent	80 parts 20 parts or 3 parts (3%) + 10 – 25%	70 parts 30 parts 3 parts (3%) + 10 – 25%		
For mixing machine users:		For mixing formula's see VIM CRS	½ - 1 part (1%) extra + 25 – 30% (By weight)				
	The Gloss data are approximate, they may change by ±5GU!						
AD300		0%	10%	15%	20%	25%	30%
RAL 7047		85GU/20° 90GU/60°	40GU/20° 75GU/60°	30GU/20° 70GU/60°	55GU/60°	45GU/60°	35GU/60°
RAL 7026		85GU/20° 90GU/60°	45GU/20° 80GU/60°	40GU/20° 75GU/60°	60GU/60°	50GU/60°	40GU/60°
 Possibility:	Mix ratio with Reducer (4:1) (By volume)	TB300 Synthetic Topcoat + AD300 Synthetic Matting Agent (mixed) RS300 Synthetic Reducer				100 parts add 15–30%	
	Mix ratio with Activator and Reducer (4:1 +10%)	TB300 Synthetic Topcoat + AD300 Synthetic Matting Agent (mixed) AS300 Synthetic Activator RS300 Synthetic Reducer				100 parts max. 25 part add max. 10%	
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: 18 – 24 sec. (DIN4/20°C)						

	<p>Gravity or Suction Feed: Nozzle set Spray gun "High pressure" Spray gun "Reduce pressure" HVLP (Air cap pressure) Airless/Airmix Pressure Pot</p>	<p>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</p>
	<p>Application: Film Thickness:</p>	<p>1 closed coat Followed by 1 full coat (recommended 40 – 50µm)</p>
	<p>Between coats at 20°C: Before baking at 20°C:</p>	<p>10 – 15 minutes (until Semi gloss/matt) 15 minutes (Not recommended – about gloss level)</p>
	<p>Clean up: (Check the local regulations!)</p>	<p>RS300 Synthetic Reducer, RS60x Universal Reducer or Gun cleaner (solvent)</p>
	<p>Air-dry at 20°C: Force-dry:</p>	<p>Dust Free: 20 – 30 minutes Dry to assembly: 3 – 5 hours Dry: 16 – 24 hours (Not recommended) 20 - 30 minutes/60°C</p>
	<p>IR-dry:</p>	<p>(Not recommended)</p>
	<p>Use suitable respiratory protection (air fed respirator is strongly recommended).</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>	