

INDUSTRIAL MIX

# **Technical Data Sheet**

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

#### TY518 PU High Opacity Binder DTM High Gloss Yellow

#### TY518 / AU

## **Product Information**

#### Product Description:

TY518 PU High Opacity Binder DTM High Gloss Yellow is a two-component, direct to metal polyurethane topcoat. This topcoat contains special pigments which enhances corrosion protection. For a higher level of anti-corrosion performance, we recommend to use of suitable VIM primer. TY518 contains the highest possible amount of yellow pigments for excellent coverage and fast operation, reducing production times & product consumption. Can be used as direct Topcoat or with 70% yellow Binder and 30% Color Toner for formulated yellow colors in CRS. TY518 is specifically developed for commercial vehicle and light-industrial markets, with good force and air-dry capabilities.

#### Preparation:

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

<b>Substrates:</b> Plastic: Other: Primer options:	Steel, stainless steel (Blasted) cast iron, primed galvanized steel, primed aluminum FP600 Plastic Primer (adhesion test recommended) E-coat, solvent resistant surfaces, original and cured coatings, cleaned/sanded FP400/401/450/451 Epoxy Primer, FP500/PB500 PU Primer DTM
Steel:	Recommended abrasive blast to SA 2½ or dry sanding P80 – P180
Aluminum:	Because of the wide number of aluminum types we recommend to use primers as described above for the best adhesion and corrosion protection on aluminum before applying this topcoat. For proper preparation of the aluminum substrate follow the steps as described in TI-Aluminum. Sanding aluminum recommendations: P80 – P180*
Galvanized steel:	For proper preparation of the galvanized substrate follow the steps as described in TI-Galvanized steel.
Stainless steel: Paint finishes:	Blasting, followed by a VIM Epoxy Primer P280 – P360
Note:	Please, regularly check and change abrasive paper as required

\*In light industrial and CT sectors, many different types of aluminium's are used in manufacture and fabrication. Because of this, good sanding and cleaning is essential to create a sound coating process. Please contact your local technical adviser if unsure of the correct process and or materials.

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

Material Description: TY518				
Application Method	Minimum DFT µm	Maximum DFT µm	Minimum WFT µm	Maximum WFT µm *
Spraying equipment (not-including airless/airmix)	50µm	80µm	70µm	120µm

\* Higher thicknesses require extended drying times

#### **Recoating:** Can be coated with CC700 Clear coat Anti-Graffiti (see TDS: CC700).

# Additives optional: AD600 High Build Additive AD601/602 Texture Additive fine/coarse (see TDS: AD600, AD601/602).



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#### **Physical properties:**

Chemical base Density (kg/l) Volume solids (%) Weight Solids (%) Flash point Pot life (+20°C) Shelf life Coverage (m <sup>2</sup> ) Gloss Color Temperature Stability VOC (g/l) Processing temperature	Polyurethane 1,108 (Binder) 59.1% 68.0% 28.0°C Approx. $1 - 2$ hours Min. 24 months under normal storage conditions and unopened tins Approx. $8.5m^2/L$ at $40\mu m$ (DFT) High Gloss >90 GU/60° Yellow Dry Heat up to $140^{\circ}C$ Max. 490g/l see CRS (VOC: 2004/42/IIB(d)420g/l) +10°C to max. +40°C, max. Humidity 85%
Processing temperature	$\pm 10$ C to max. $\pm 40$ C, max. Furthering 65%

# **Application Data**

	Preparation/ Cleaning:	All surfaces must be properly shot blasted or sanded and cleaned. Abrasive blast to EN ISO 12944, part 4 (SA 2½) with a uniform blast profile of 20-50 micron. Dry sanding Steel: P80-P180 Solvent resistant existing ridged paint finishes: P280-P360 Aluminum & Galvanized pre-primed only (see Technical Information- Substrate and Pre Treatment and or primer Technical Data Sheet) Cleaning: AD690 Solvent Degreaser Surface must be dry and free from any contamination, e.g., oil, grease			
	Handling:	Color preparation:Before use/spraying:1. Stir binder until homogeneous1. Mix mechanically (paint2. Add Color Toners2. Add Activator and Redu3. Mix mechanically (paint shaker/ mechanical stirrer)3. Stir this mixture well with or a (pneumatic) stirrer		th a mixing stick	
$\square$	Use as standard Yellow: Mixing ratio with Color toner: (By volume) For mixing machine users:		TY518 PU DT	/I Topcoat	100 parts
9			TY518 PU DTN CT Range of V	И Topcoat ′IM Color Toners	70 parts 30 parts
			For mixing form	nulas see VIM CRS	(By weight)
	Mixing ratio with Activator and Reducer: (By volume)		RS605 Univers RS607 Univers	or or ivator Fast or	8 parts 1 part Add max. 25 %
	Mix stick:		Use the Mixing <b>M4 8:1</b> (74-204 <b>M6 Universal</b>		) / <b>M7</b> (74-207 large)
	Faster proces (By volume)	s of drying:	AA600 Acceler	ator (with AU500 only)	Max. 3%

# valspar

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s	<b>Viscosity:</b> 20 – 26 sec. (DIN4/20°C)		
	Gravity or Suction Feed: Nozzle set $1.3 - 1.4 \text{ mm}$ Spray gun "HP" $3.0 - 4.5 \text{ bar} (42 - 65 \text{ psi})$ Spray gun "RP" $1.5 - 2.0 \text{ bar} (21 - 30 \text{ psi})$ HVLP (Air cap pressure) $0.7 \text{ bar} (10 \text{ psi}) \text{ maximum}$ Airless/AirmixNot recommendedPressure Pot $1.0 - 1.3 \text{ mm}$		
	Application: Film Thickness: (recommended 50 – 80µm)	<b>Option 1:</b> ½ coat followed by 1 full coat 40 – 60μm (DFT)	<b>Option 2:</b> 1 full closed coat followed by 1 full closed coat 60 – 80µm (DFT)
	Between coats at 20°C: Before baking at 20°C:	5 minutes 10 minutes	5 – 10 minutes 10 minutes
	Clean up: RS605/607/609 Universal Reducer or   (Check the local regulations!) Gun cleaner (solvent)		
	Drying and curing is dependent on speed of the wide range of Activator and Reducer used.		
	Air-dry at 20°C:   Dust Free:   1 – 3 hours     Dry to assembly:   5 – 8 hours     Dry:   16 – 20 hours		
	Force-dry at 60°C:20 - 45 minutes (object temperature)		
	IR–dry: 12 – 18 minutes (The panel must not exceed 90°C)		
	Use suitable respiratory protection (air fed respirator strongly recommended).		
	Recoatable: After: min. 1hr/20°C   CC700 Clear coat Anti-Graffiti (see TDS)   After 24 hours sanding is required		
5	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.	



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<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 Safety Datasheet (SDS). Information also available on our webpage: www.valsparindustrialmix.com
<b>Note:</b> 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.