

TW518 Polyurethane High Opacity Binder High Gloss – White 8:1

TW518 / US

Product Information

Product Description:

TW518 Polyurethane High Opacity Binder High Gloss – White 8:1 with 95% white Binder - 5% Color Toner has to be added or without Color Toner as direct Topcoat. TW518 is a two component, polyurethane topcoat direct to steel offering excellent corrosion protection with a high gloss finish. This white Binder contains the highest possible amount of white pigments for excellent coverage and fast operation, reducing production times & product consumption. TW518 is especially developed for Industrial OEM and aftermarket repair industry with excellent air-dry and force dry capabilities. All Toners are chromate and lead free and provides excellent UV protection.

Substrates:

Properly prepared Steel substrates, also surfaces sprayed with Epoxy Primer: FP420/423 Epoxy Primer/Sealer (wet on wet or sanded)
Other: Solvent resistant surfaces, cleaned/sanded/hardened original and cured coatings.

Preparation:

Dry Sanding substrate: Steel: P80 – P180 / Aluminum: Not Recommended

Dry Sanding Coating: VIM Primer/existing finishes: P280 – P360

Steel surface Preparation: Abrasive blast to SSPC and NACE recommendation with a uniform blast profile of 0.7 to 2.0mil (20-50µm).

Galvanized: Sweep Blasting recommended.

Note: The layer thickness of the Primer should be three (3) times more than the grade of the shot blasted surface.

(More Detailed information go-to Preparation and Pre-treatment at www.valsparindustrialmix.com)

Cleaning:

Surface must be dry and free from any contamination, e.g. oil, grease, release agents. Use only approved cleaning products per your local regulations. (More Detailed information go-to cleaning processes at www.valsparindustrialmix.com)






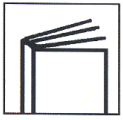
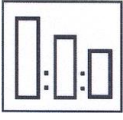
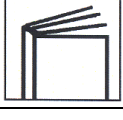

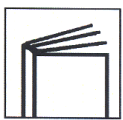

Physical Data:

RTS REGULATORY DATA	8:1 +0-35%		8:1 +0-35%		8:1 +0-35%	
	(Reducer Line)		(Exempt Reducer Line)		(Exempt Activator and Exempt Reducer Line)	
	LBS/GAL	g/L	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	5.0 Max.	600 Max.	2.61 Max.	314 Max.	2.33 Max.	280 Max.
Regulatory VOC (less water and exempt solvents)	5.0 Max.	600 Max.	2.8 Max.	340 Max.	2.8 Max.	340 Max.
Density	11– 13	1350 - 1500	11 – 13	1350 – 1500	11 – 13	1400 – 1550
	WT.%	VOL.%	WT.%	VOL.%	WT.%	VOL.%
Total Volatile Content	21.2 – 31.7	36.0 – 48.8	21.2 – 35.72	36.0 – 48.8	21.69 – 36.01	35.4 – 48.31
Water Content	0	0	0	0	0	0
Exempt Compound Content	0 – 5	0 – 5	0 – 25	0 – 25	0 – 25	0 – 25
Physical properties:						
Chemical base	Polyurethane		Coverage (sq ft - DFT)		Approx. 795sq ft / 1.0mil	
Density lbs/gal (kg/l)	12.88 lbs/gal (1.55 kg/L)		Gloss		High gloss >90 GU/60° +/- 10GU	
Volume solids (%)	65%		Color		White	
Weight Solids (%)	80%		Temperature Stability		Dry Heat up to 284°F/140°C	
Flash point	82°F (28°C)		Processing temperature		50 – 104°F (+10°C - 40°C)	
Pot life / 77°F (+25°C)	Approx. 1.5 – 2.5 hours		Humidity		Until 85% R.H.	
Shelf life	Min. 24 month under normal storage conditions and unopened tins					

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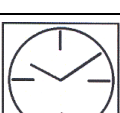



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Application Data

	Cleaning: Use only approved products per your local regulations	Primed or existing finishes – Valspar 155 Surface Cleaner or 170 AquaClean Low VOC WaterBase or AD680 Water Based Cleaner must be cleaned, dry and free from any contamination, e.g. oil, grease	
	Preparation:	Dry sanding substrate: Steel P80 – P180 / Aluminum Not recommended Dry sanding coating: Existing finishes P280 – P360 Galvanized: Sweep blasting recommended Abrasive blast: with a uniform blast profile of 0.7 to 2mil (20-50µm)	
	Before using: The product must be shaken before adding the Color Toners and thoroughly stirred directly after the Activator and Reducer have been added.		
	Mixing ratio with Color Toner: (By Volume)	TW518 Polyurethane High Opacity Binder CT Range of VIM Color Toners (For mixing formula's see Color Focus)	95 parts 5 parts
	Binder direct as Topcoat:	TW518 Polyurethane High Opacity Binder Without Toner (mixing ratio is the same)	100 parts
	Mixing stick: Use the mixing stick M4 8:1 (74-204=8:1/10:1) or M6 (74-206 standard) / M7 (74-207 large) Universal cm-stick		
	Low VOC: If used as instructed, this product is designed to comply with the Low Volatile Organic Compound (VOC) Emission Standards for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. Component: Use component as instructed per Valspar guidelines. Verify that intended end use of component is in compliance with state and local air quality rules before use.		
	Low VOC (2.8 lbs/gal) Mixing Ratio with Activator and Reducer: *Max VOC 2.8 (by Volume)	TW518 Polyurethane High Opacity Binder AU544 Polyurethane Activator Low VOC RE6x0 Exempt Reducer (RE670/680/690) (RE670 Fast / 680 Medium / 690 Slow)	8 parts 1 part +0-35%
	Canada: If used as instructed, this product is designed to comply with the Canadian Volatile Organic Compound (VOC) Emission Standards for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. Component: Use component as instructed per Valspar guidelines. Verify that intended end use of component is in compliance with state and local air quality rules before use.		
	Canadian (3.5 lbs/gal) Mixing Ratio with Activator and Reducer: *Max VOC 3.5 with AU540 (by Volume)	TW518 Polyurethane High Opacity Binder AU540/AU544 Polyurethane Activator/Polyurethane Activator Low VOC RE6x0 Exempt Reducer (RE670/680/690) (RE670 Fast / 680 Medium / 690 Slow)	8 parts 1 part +0-35%
	Faster process of drying:	AA600 Accelerator	Max. 3%
	US National Rule: If used as instructed, this product is designed to comply with the US National Rule Volatile Organic Compound (VOC) Emission Standards for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. Component: Use component as instructed per Valspar guidelines. Verify that intended end use of component is in compliance with state and local air quality rules before use.		
	US National Rule (5.0 lbs/gal) Mixing Ratio with Activator and Reducer: *Max VOC 5.0 (by Volume)	TW518 Polyurethane High Opacity Binder AU540/AU544 Polyurethane Activator/Polyurethane Activator Low VOC RS6x0 Reducer Solvent (RS670/680/690) (RS670 Fast / 680 Medium / 690 Slow)	8 parts 1 part +0-35%
	Faster process of drying:	AA600 Accelerator	Max. 3%

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	Viscosity: 20 – 26 sec. (DIN4/68°F/20°C)		
	Gun set up: Gravity Feed Siphon Feed HVLP (Gravity Feed) Pressure Pot Airless / and with air support Atomizing Air Pressure	Nozzle / Tip Size: 1.4 – 1.8 mm 1.6 – 1.8 mm 1.3 – 1.5 mm 1.0 – 1.5 mm Not Recommended	Air Pressure: 35-40 psi (2.5-2.8 bar) 35-45 psi (2.5-3.1 bar) 30 psi (2.0 bar) Inlet Air 35-40 psi (2.5-2.8 bar) 55-65 psi (3.8-4.5 bar)
	Application: Recommended Film Thickness:	Option 1: ½ coat – followed by 1 full wet coat 1.6 – 2.4mil DFT (40 – 60µm)	Option 2: 2 full wet coats 2.4 – 3.2mil DFT (60 – 80µm)
	Clean up: (check the local regulations!)		RS6x0 Reducer Solvent or RE6x0 Exempt Reducer
	Flash between coats at 77°F/25°C: Before baking at 77°F/25°C:		5 – 10 minutes or until previous coat is non stringing 10 minutes
	Air-dry at 77°F/25°C: (DFT dependent)		Tack Free: 2 hours To Tape: 8 hours To Recoat: 16 hours (overnight)
	Force-dry at 140 – 158°F: (60°C – 70°C)		30 minutes 140°F/60°C object temperature
	IR-Dry		12 – 15 minutes The panel must not reach a temperature above 194°F/90°C.
	Use suitable respiratory protection (the use of fresh air supply respirator recommended).		
	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.
	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 at www.valsparindustrialmix.com . Note: The products listed are intended only for the professional user and for professional use. All recommendations in words and writing given 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 universal 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.		

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