

FP430 High Build DTM 2.1 VOC Epoxy Primer

FP430 / US

Product Information

Product Description:

FP430 High Build DTM 2.1 VOC Epoxy Primer – Grey is a two pack modified-amine cured epoxy primers formulated for one coat coverage. Delivers excellent adhesion, water and chemical resistance combined with extreme corrosion protection.

Substrates:

Properly prepared steel, iron, cast iron, galvanized steel, aluminum surfaces,
Industrial OEM and solvent resistant surfaces, sanded, cleaned original and old cured coatings.

Preparation:

Dry Sanding substrate: Steel: P80 – P180 / Aluminum: P180 – P240

Dry Sanding Coating: Existing finishes: P220 – P280

Steel: 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 at least 1 mil greater than the grade of the shot blasted surface.

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.

Topcoats:

TB230 – Acrylic Enamel 3.5 VOC High Gloss

TB543 – Polyurethane Enamel 2.8 VOC Semi Gloss

TB550 – Polyurethane Enamel 2.8 VOC High Gloss

TB559 – Polyurethane Enamel 2.8 VOC High Gloss

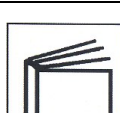
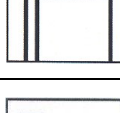
Physical Data:

RTS REGULATORY DATA	4:1 +20-40%		4:1 +20-40%	
	(Reducer Line)		(Exempt Reducer Line)	
	LBS/GAL	g/L	LBS/GAL	g/L
Actual VOC	4.6 Max.	550 Max.	1.5 Max.	182 Max.
Regulatory VOC (less water and exempt solvents)	4.6 Max.	550 Max.	2.1 Max.	250 Max.
Density	11 - 13	1340 - 1600	12 – 13	1450 - 1600
	WT. %	VOL. %	WT. %	VOL. %
Total Volatile Content	25 - 35	45 - 55	30 - 50	45 - 55
Water Content	0	0	0	0
Exempt Compound Content	5 - 10	5 - 15	10 – 30	10 - 35
Physical properties:				
Chemical base	Epoxy Primer	Coverage (sq ft - DFT)	Approx. 1010 sq ft / 1.0mil	
Density lbs/gal (kg/l)	14.35 lbs/gal (1.72 kg/L)	Gloss	Semi-gloss	
Volume solids (%)	63%	Color	Grey	
Weight Solids (%)	81%	Temperature Stability	Dry Heat up to 284°F/140°C	
Flash point	31°F (-1°C)	Processing temperature	50 – 100°F (+10°C - 38°C)	
Pot life / 77°F (+25°C)	Approx. 1.5 – 2.5 hours	Humidity	Until 80% R.H.	
Shelf life	Min. 24 month under normal storage conditions and unopened tins			

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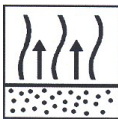
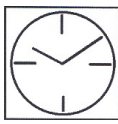
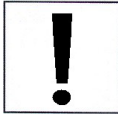
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Application Data

	Cleaning: Use only approved products per your local regulations	Steel, Primed or existing finishes – Valspar 155 SunPrep Cleaner Aluminum, Primed or existing finishes – 170 AquaClean Low VOC WaterBase All metal substrates and existing finishes – AD680 Water Based Cleaner Surface must be cleaned, dry and free from any contamination, e.g. oil, grease	
	Preparation:	Dry sanding substrate: Steel P80 – P180 / Aluminum P180 – P240 Dry sanding coating: Existing finishes P220 – P280 Galvanized: Sweep blasting recommended Abrasive blast: (ISO SA2½) with a uniform blast profile of 0.7 to 2mil (20-50µm)	
	Before using: The product must be shaken and thoroughly stirred directly after the Activator and Reducer have been added.		
	Mixing stick: Use the mixing stick M2 4:1 (74-202=3:1/4:1) or M6 (74-206 standard) / M7 (74-207 large) Universal cm-stick		
	Low VOC: If used as instructed, this product is designet to comply with Voatile Organic Compound (VOC) Standards in low-VOC jurisdictions, 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 (2.1 lbs.gal) Mixing ratio with Activator and Reducer: (By volume)	FP430 High Build DTM 2.1 VOC Epoxy Primer AP430 High Build Epoxy Primer Activator RE6x0 Exempt Reducer (RE670/680/690) (Rx670 Fast / 680 Medium / 690 Slow)	4 parts 1 part + 20-40%
	US National Rule: If used as instructed, this product is designed to comply with the US National 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 (4.6 lbs/gal) Mixing ratio with Activator and Reducer: (By volume)	FP430 High Build DTM 2.1 VOC Epoxy Primer AP430 High Build Epoxy Primer Activator RS6xx Reducer Solvent (RS670/680/690/695) or RE6x0 Exempt Reducer (RE670/680/690) (Rx670 Fast / 680 Medium / 690 Slow)	4 parts 1 part + 20-40%
	Viscosity: 22 – 30 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: 1.5 – 1.9 mm 1.6 – 1.9 mm 1.4 – 1.7 mm 1.1 – 1.5 mm 013" - .017"	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 35-45 psi (2.5-3.1 bar) 2000 – 3000 psi (135-200 bar) 40-65 psi (2.8-4.5 bar)
	Application: Recommended Film Thickness	Option 1: 1 full wet coat 2.5 – 4.0mils / 60 – 100µm (DFT)	

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	Clean up: (check the local regulations!)	RS6xx Reducer Solvent or RE6x0 Exempt Reducer
	Flash between coats at 77°F/25°C:	Not applicable
	Air-dry at 77°F/25°C: (DFT dependent)	Print Free: 4 - 8 hours To Topcoat*: without sanding 1 hour until maximum 96 hours, after 96 hours FP430/FP431 must be scuffed or sanded
	Force-dry at 140 – 158°F: (60°C – 70°C)	Dry to sand: 12 hours to overnight 60 minutes 140°F/60°C object temperature
	Recoatable: (see Technical Data Sheets)	TB230 – Acrylic Enamel 3.5 VOC High Gloss TB543 – Polyurethane Enamel 2.8 VOC Semi Gloss TB550 – Polyurethane Enamel 2.8 VOC High Gloss TB559 – Polyurethane Enamel 2.9 VOC High Gloss
	Use suitable respiratory protection (the use of fresh air supply respirator recommended).	
	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.	

If used as instructed, this product is designed to comply with the US National Volatile Organic Compound (VOC) Emission Standard for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. **UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.