

Etch 1K Epoxy Primer

Polyvinyl Butyral Epoxy



PRODUCT DESCRIPTION

A single component, quick drying, polyvinyl butyral modified epoxy primer

INTENDED USES

Etch 1K Epoxy Primer is designed for application to all types of steel surfaces in mild industrial and commercial environments exposed to inland environmental conditions. It is ideal for use on vehicle chassis & underbody components and other steel substrates. It is ideal for areas exposed to high temperatures such as fire places, braais or as a corrosion protection primer for high temperature applications.

The primer is characterized by its fast turn-around time, corrosion protection properties, easy application, and adhesion to hand cleaned steel.

Etch 1K Epoxy offers excellent adhesion to mild steel, galvanized steel and aluminium alloys.

CHARACTERISTICS

- Easy to use one component product that can be brush or spray applied
 - Good anti-corrosive properties
 - Quick drying with high coverage
 - Contains epoxy for corrosion protection and reinforcement
 - Aerosol touch-up packs available
 - Weldable - weld-through primer, flexible
 - Resistant to oil spills and splashes
 - Overcoatable by a range of topcoats
 - High Temperature resistance
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PRODUCT INFORMATION

Colour	Red Oxide, Black & Grey, other colours
Finish	Smooth Semi Matt
Density	0.92 kg / litre
Volume Solids	15%
Typical Film Thickness	15-25 microns DFT 100um-167um WFT
Theoretical Coverage	▪ 6.0 m ² / litre at 25 microns dft, allow loss factors
Method of Application	Brush, Roller or Spray
Flash Point	4°C
Temperature Resistance	Dry continuous - 250°C Intermittent - 300°C
Number of Coats	1-2
VOC	768 g / lt
Viscosity	55-60 KU

DRYING INFORMATION

	0°C	5°C	15°C	25°C	40°C	45°C
Touch Dry	-	-	-	10 m	-	-
Hard Dry	-	-	-	1 hr	-	-
Full Cure				-		

Overcoating Data – See Limitations

Substrate Temp.	0°C	5°C	15°C	25°C	40°C	45°C
Minimum	-	-	-	60 m	-	-
Maximum				Extended		

Note

*See Speccoats™ Definitions and Abbreviations

*Without Abrasion, can be over coated with Etch 1K Epoxy Primer. 4 Hours should be allowed for other topcoats. Light abrasion using sandpaper is required after 24 hours

SURFACE PREPARATION

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be cleaned and free from contamination. Prior to paint application all surface should be assessed and treated in accordance with ISO 8504:2000.

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by fresh water rinsing. Oil or grease should be removed in accordance with SSPC-SPI solvent cleaning.

Abrasive Blast Cleaning and Mechanical Preparation –Steel – Optional Method

All surfaces to be coated must be dry, clean and free from contamination. This product should be applied to surfaces prepared by abrasive blast cleaning to Sa 2½ in accordance with International Standard ISO 8501:2007 and SSPC-SPI10. A blast profile of 30 - 50 microns is recommended or alternatively mechanically abrade the surface using grinding or flapper discs to achieve a similar profile

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APPLICATION

Mixing

Material is supplied in steel containers. This is a one component product and does not require a hardener.

Agitate/stir the product well before use to ensure a homogeneous mix and no settlement of pigments

The temperature of the mixed product should preferably be above 8°C. Higher temperatures results in reduced sag resistance and faster cure

APPLICATION

Pot Life	No limitation, if product thickens use thinner to reduce viscosity.		
Thinner	Etch Thinner or Xylene	0-25% depending on application	
Airless Spray	Recommended	Tip Range 11-17 Thou. Pressure at the tip should not be less than 170 bar (2500 PS)	
Air Spray	Recommended	Gun	Pressure/Gravity Feed
		Fluid Tip	1.1 mm to 1.8 mm
Brush/Roller	Suitable		
Work Stoppag	Thoroughly flush all equipment with Xylene or Etch Thinner. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered and viscosity re-adjusted before used.		
Clean Up	Clean all equipment immediately after use with Xylene or Etch Thinner. It is good working practice to periodically flush out the spray equipment during the course of the working day. Frequency of cleaning will depend upon the amount sprayed, temperature and elapsed time, including delays.		

Environment	Surface	Ambient	Relative
	Temperature	Temperature	Humidity
Minimum	5°C*	10°C	No lower limit
Maximum	40°C	45°C	85%

*or 3°C above the dew point

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LIMITATIONS

- This product is not intended for use in aggressive, corrosive environments or on heavily pitted or contaminated steel.
- This product is not recommended for use in continuous immersion conditions.
- Over-application will extend both the minimum overcoating periods and handling times,
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Speccoats™ representative for specific recommendations
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Speccoats™ makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating

UNIT SIZE

5, 20, 200Lt

STORAGE

Shelf Life 12 months at 25°C - from date of manufacture

Subject to inspection thereafter. Store in dry conditions out of direct sunligh away from source of heat or ignition
Store at temperature between 5 and 35°C

IMPORTANT NOTE

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

PRECAUTIONS

For complete safety and handling information please refer to the appropriate **Safety Data Sheets** prior to using this product.