

Epoxy RustBond

Solvent free penetrating epoxy primer/sealer for severely rusted steel and poor concrete

A two-component ambient curing amido-amine epoxy clear primer.

Intended Uses:

A cross-linking penetrating sealer with excellent wetting properties. Epoxy RustBond is designed to penetrate wire brushed rusty surfaces and 'fix' rust or friable concrete to an extent that it can be over coated with a variety of topcoats.

This penetrating sealer is excellent for poorly prepared steel and concrete surfaces providing outstanding corrosion resistance, adhesion properties, a long pot life and an extensive recoat window.

Properties:

- High solids, low viscosity clear primer/sealer.
- Excellent wetting of wire brushed rusty surfaces.
- Excellent wetting and penetration of porous concrete surfaces.
- Slow curing to enable the product to penetrate the substrate.
- Cures to a hard, flexible coating.
- Provides a base onto which a variety of topcoats can be applied.
- Provides excellent adhesion onto rusty substrates.
- Used as a tie coat for coating which have exceeded their 'recoat window'.
- Used as a primer/sealer for clean, oil free galvanized surfaces.
- Can also be used as a sealer for concrete surfaces.
- No induction time needed.
- Thixotropic version available for application to vertical surfaces.

Technical Data:

Colour	Clear
Finish	Semi-gloss
Mix Ratio (Volume)	2 : 1
Activator	Epoxy Activator RustBond
Induction Period	Not required
Density	1.05 Kg/ Litre (Mixed)
Volume Solids	100%
Typical Film Thickness	50-200µm DFT (heavy rust should be completely encapsulated)
Theoretical Coverage	5 m ² / Litre @ 200µm DFT, allow for loss factors
Method of Application	Brush, roller, or spray
Flash Point	N/A
Temperature Resistance	Dry continuous – 80°C
Number of Coats	1 – 2 depending on rust.
Pot Life	5 Hours

Drying Information:

	0°C	5°C	15°C	20°C	40°C	45°C
Touch Dry	-	-	-	5 hrs	-	-
Hard Dry	-	-	-	24 hrs	-	-
Full Cure	-	-	-	7 days	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	15°C	20°C	40°C	45°C
Minimum	-	-	-	24 hrs	-	-
Maximum	7 days					

Note:

* See Specialized Coating Systems Definitions & Abbreviations.

If overcoating window is exceeded, the surface should be abraded, or sweep blasted prior to re-coating.

Surface Preparation:

Degrease surfaces with Hydrosolve Degreaser followed by a high-pressure freshwater rinse.

Wire brush to grade St3 of Standard ISO 501-2.

All surfaces must be dry and clean.

Application:

Mixing	Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Ensure that just sufficient material is mixed so that the product can be applied within its use-able life. The temperature of the mixed product should preferably be above 10°C.
Pot Life	5 hours at 25°C
Thinner	Not required – if necessary up to 5% SA 65 Thinners
Airless Spray	Tip range 15 – 23 Thou. Pressure at the tip should not be less than 150 bar (2200 PSI)
Brush/Roller	Suitable (Typically, 40 – 50µm can be achieved)
Clean Up	Clean all equipment immediately after use with SA65 Thinner . It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time, including delays.

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C*	10°C	No lower limit

Industrial & Protective: Steel & Concrete Protection - Climatic

Page 2 of 3

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

Issue Date:
01/05/2019

Maximum	45°C	45°C	85%
---------	------	------	-----

* Or 3°C above dew point

Limitations:

- In common with all epoxies, Epoxy RustBond will chalk and discolour on exterior exposure.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems 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.

Pack Size:

4.5 Lt Litre.

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.
- Store at temperatures between 5°C and 35°C.

Precautions:

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