STEEL PRESERVE PRIMER

02/14/20 Version 2.0

Description

Steel Preserve Primer has the ability to create an ionic bond with metal and provide a surface coating that encapsulates corrosion and protects old, deteriorating, ferrous substrates. Steel Preserve Primer may be applied directly to surfaces with tightly adhered intact rust (with proper preparation). Steel Preserve Primer will penetrate tightly adhered intact rust to bond with the metal substrate below to stop the corrosion process.

When properly applied, Steel Preserve Primer provides both the applicator and asset owner with a cost effective infrastructure maintenance program. Steel Preserve Primer is environmentally friendly due to it being water-based, extremely low VOC level, and ease of application and use.

Basic Usage

Steel Preserve Primer is primarily used as a primer coating to protect ferrous materials from further deterioration and loss of mass, through exposure to many naturally occurring elements.

- Concrete encased metal
- Metal Stairs and Ramps
- Corrosion Under Insulation (CUI)
- Corrugated and Metal Roofs
- Ship Decks
- Columns - Beams - Bridges
- Tanks
- Mines, Infrastructure, Pipe exteriors

Steel Preserve Primer, in some cases may be used in some cases as a stand-alone solution, although more often as a part of a more comprehensive solution utilizing other Aquron products. In addition, Steel Preserve Primer may be used as a functional primer for other coating systems.

Benefits

- Simplified surface preparation
- Can be applied via brush, spray, or roll
- Penetrates rust and bonds to metal below
- Extends time between maintenance cycles
- 1K Water-borne product
- Flexible re-coat window (weeks vs hours)
- Ease of clean-up (water and solvents)
- Remarkable ease of application
- Minimal odor
- Water resistant

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Information / Composition of Components

Proprietary formulation no hazardous ingredients according to the OSHA Hazard Communication Standard (29 SS1 1910.1200)

Number of Components:	One
Mass Density:	1.2-1.3 gr/cc
Volume Solids:	52% ±2%
VOC:	Under 1.0
Viscosity:	200-600 cSt
pH:	8-9
Recommended DFT:	1-3 mils Dry Film Thickness (DFT)
Time Dry to Touch:	20-40min.
Overcoating Intervals:	When dry to touch
Full Cure After:	24-48 hours
Shelf Life:	24 months at 4-40 Degrees Celsius (in original sealed container)
Physical State at 20^{O}C:	Liquid
Appearance:	Milky White, White, Yellow, Colors
Odor:	Slight Acrylic
Freezing Point [^{O}C]:	0^{O}C
Boiling Point [^{O}C]:	100^{O}C
Vapor Pressure:	2.3 kPa at RT
Flammability (Solid, Gas):	Not Flammable

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Upper / Lower Limit on Flammability or Explosive Limits

Flammability Limit Upper (%):	N/A
Flammability Limit Lower (%):	N/A
Solubility in Water:	Partial
Auto-ignition Temperature [^{O}C]:	N/A
Decomposition point [^{O}C]:	N/A

Dry / Cure Time Guidelines for STEEL PRESERVE PRIMER		
Substrate Temperature	Time - Dry to Touch	Time - Dry to Service (Chemical Cure)
21°C / 70°F	1 hour	48 hours
32°C / 90°F	45 minutes	24 hours

Refer to our Material Safety Data Sheet (MSDS) regarding regulatory compliance, safety, hazards, spill procedures and disposal of this product.

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