



HIGH PERFORMANCE VCI COATINGS

VCI-393 Primer

PRODUCT DESCRIPTION

VCI-393 is a three-part epoxy primer that chemically reacts with itself to form a tight sealing film. This reaction seals in rust with corrosion inhibitors and provides an excellent priming surface for most topcoats and is excellent for applying over pre-rusted steel. Minimum surface preparation is all that is needed; however, protection and durability increase with better surface preparation. VCI-393 is also an excellent sealer for concrete and wood.

FEATURES

- No shrinkage
- Low viscosity for excellent wetting of surface
- Multimetal protection
- High gloss
- Excellent adhesion and wetting of surface
- Low film thickness (1 mil/25 microns)
- Excellent for weathered galvanized steel
- Penetrates deep into cracks and grooves

PHYSICAL PROPERTIES

Part A

Appearance Clear colorless to yellow liquid
Non-volatile Content 58-62%

Part B

Appearance Clear yellow liquid
Non-volatile Content 35-40%
Density 7.3-7.5 lb/gal (0.87-0.90 kg/l)

Part C

Appearance Clear brown liquid
Non-volatile Content 63-68%
Density 7.6-7.9 lb/gal (0.91-0.95 kg/l)

PHYSICAL PROPERTIES (FINAL BLEND)

Non-volatile Content 99.4-99.6%
Density 8.4-8.6 lb/gal
(1.01-1.03 kg/l)
Dry to Recoat Time 24 hours
Dry to Touch Time 8-24 hours
Film Type Hard glossy
Flash Point 135°F (57°C)
Shelf Life 12 months @ 75°F (24°C)
Temperature Resistance 250°F (121°C)
Theoretical Spread Rate 1590-1593 ft²/gal @ 1 mil
(39 m²/l @ 25 microns)
Viscosity 50-80 cps
Mixing Ratio 3:1 (Part A:Part B) +
2% Part C
Induction Time None

TYPICAL APPLICATIONS

- Roofs
- Fences
- Machinery
- Road equipment
- Towers
- Wood
- Marine and industrial environments
- Underbody repair
- Light poles
- Oil platforms
- Bridges and roads
- Concrete

METALS PROTECTED

- Carbon steel
- Cast iron
- Zinc
- Aluminum

SURFACE PREPARATION

NACE	SSPC	ARS
4	7-63	Low C-3

Methods for Monitoring:
Wet/Dry Film Thickness Gauge

APPLICATION

Dry Times:

Touch	8-24 hours
Recoat	24 hours
Cure	48-72 hours

Provide good, thorough ventilation. Enclosed areas require complete air turnover. Apply VCI-393 by conventional air spray, brush or roller. A Graco #700 or #800 air spray gun (Delta Spray or equivalent) with suitable needle/nozzle and air cap combination will work best. To minimize overspray, use low air pressure and pot pressure, 5 to 10 psi (0.34 to 0.69 bar). Airless application is not recommended. VCI-393 is low in viscosity. Coat surface sufficiently to completely cover and penetrate to the metal surface. Do not apply heavy coats. Clean application equipment with Cortec® VCI-432.

Apply one coat of VCI-393 at 1½ mils (37.5 microns) and allow it to cure overnight. An additional coat of VCI-393 may be required for very porous surfaces. After the overnight cure, VCI-393 may be overcoated even if still lightly tacky. VCI-393 is normally topcoated with Cortec® VCI-365, VCI-386 or VCI-387. Maximum time to recoat should be under 3 days.

PACKAGING

VCI-393 is available in a three-part kit: Part A - 0.75 gal (2.8 l), Part B - 0.25 gal (0.9 l) and Part C - 0.02 gal (0.08 l).

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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