

CorrBarrier™ Primer

DESCRIPTION

CorrBarrier™ is a fast drying, water-based PVC one coat system (primer) that provides protection in harsh, outdoor, unsheltered applications when topcoated. The complex mixture of non-toxic, organic inhibitors offers protection that competes with most paints and zinc-rich primers. Provides multi-metal protection. Product is often used as vehicle undercoat/ under the hood applications.

PACKAGING & STORAGE

CorrBarrier™ is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes, and bulk. Keep product from freezing.

Product shelf life is 1 year.



CHARACTERISTICS/TECHNICAL DATA

Volume Solids	44.30%
Gloss (ASTM D532)	15-25
VOCs (ASTM D3960)	0.2 lbs/gal (24 g/l)
Viscosity	5,000-10,000 Centipoise
Pencil Hardness (ASTM D3363)	F
Spreading Rate	710 sq.ft/gal @ 1.0 mils DFT (17.4 sq.m/l @25 µm)
Weight per Gallon	10.38 lbs/gal (1.25 kg/l)
Flash Point	>200°F (93°C)
Recommended DFT	2.0-3.0 mils (50-75 µm)
Recommended WFT	4.5-6.7 mils (112.5-167.5 µm)
Dry to Touch	20-30 min
Dry to Handle	1 hr
Recoat Time	NA
Force Dry	15-20 min @ 150°F (65°C)
Full Cure	3-7 days
Salt Spray (ASTM B117)	500 hrs
Humidity (ASTM D1748)	500 hrs
Adhesion (ASTM D3359)	5B
Flexibility (ASTM D522)	1/2" mandrel (1.27cm)

*All tests performed after a 7 day cure at ambient temperature

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APPLICATION

Surface Preparation

Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, rust inhibitors, or any other surface contamination that could affect adhesion. For production line applications, use VpCI®-440 or similar phosphatizing pre-treatment. For structural steel applications, Cortec® recommends a minimum of a NACE #3/ SSPC-SP6 commercial blast clean. Consult Cortec® and/or test system adhesion prior to full scale application.

A wash primer such as VpCI®-373 green applied at 0.5-1.0 mils (12.5-25 microns) is recommended before applying the CorrBarrier™ to aluminum, galvanized or plated substrates. When solvent based topcoats are applied over CorrBarrier™, compatibility must be checked. All Cortec® High Performance Coatings can be topcoated over CorrBarrier™.

Note: Make sure dew point is more than 5°F (2°C) less than air temperature for application. Power agitate to a uniform consistency using a "squirrel cage" type mixer, hand-held drill mixer, or other equivalent method. CorrBarrier™ can be applied by spray, roll, brush, or dip.

Typical Equipment Setups

HVLP / Conventional Spray

- Tip .009"-.021" *dependent upon pressures and viscosity
- Air Pressure 45-55 psi
- Fluid Pressure 10 psi
- Fluid hose should be 3/8" (0.95 cm) I.D. with a maximum length of 50 feet (15.2 m). Pot should always have dual regulation and be kept at same elevation as spray gun.

Air Assisted Airless / Airless

- Tip .015"-.035" *dependent upon pressures and viscosity
- Pressure 1800-2500 psi
- Hose should be 3/8" (0.95 cm) I.D. minimum, but a 1/4" (0.64 cm) I.D. whip end section may be used for ease of application. A maximum length of 100 feet (30.5 m) is suggested.

Cleanup

Clean tools/equipment immediately after use with water when coating is still wet. When dry, use Butyl Cellusolve or MEK. Follow mfg's safety recommendations when using any solvent.



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