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PCB-I STEEL PRIMER

1:1 Anti Corrossion Primer

DESCRIPTION: CarbonWrap™ PCB-I STEEL PRIMER is a high performance anti corrosion primer for use on steel substrate where it is desireable to block rust formation prior to the application of other epoxy systems. It is an easy to use, 1:1 coating which may be rolled, brushed or sprayed. It has an oxide red color, is 100% solids and retains excellent flexibility when cured. With low odor and toxicity CarbonWrap™ PCB-I STEEL PRIMER is solvent free, and DOT non-regulated.

SUGGESTED USES: Use CarbonWrap™ PCB-I STEEL PRIMER to overcoat prepared steel prior to application of other epoxy systems such as structural laminates. CarbonWrap™ PCB-I STEEL PRIMER is a top grade anti corrosive primer with an excellent balance of properties.

ADVANTAGES:

Good adhesion to prepared substrates
Good humidity and corrosion resistance
Good film appearance and no amine blush
Long pot life
Plasticizer-free

APPLICATIONS:

100% solids corrosion resistant coating for steel. Penetrating primer for steel / concrete interfaces.

PROPERTIES:

• Vol Solids (%)	100
• Mix Ratio (A:B,vol)	1:1
• PVC (%)	22.1
• VOC (lb/gal)	0.03
• Pot Life (hr)	2.25
• Initial Viscosity (cP)	3600
• Dry to touch (hr)	24 hrs
• Wt per gallon (lb/gal)	12.03

The information contained herein is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on test and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. Always read, understand, and comply with the hazard warnings described in the products' Material Safety Data Sheet(s) before use.

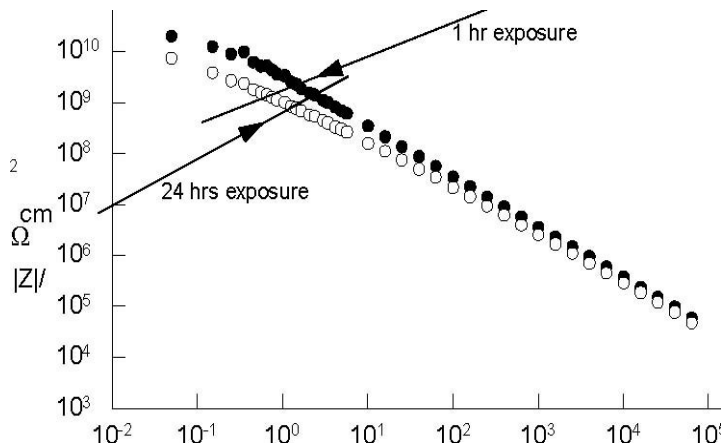
SURFACE PREPARATION: CarbonWrap™ PCB-I STEEL PRIMER bonds well with minimal surface preparation. Substrate sanding or scuffing will enhance bond capabilities. CarbonWrap™ PCB-I STEEL PRIMER does not bond well to some untreated plastics or to surfaces contaminated with petroleum products.

DIRECTIONS FOR USE: Use CarbonWrap™ PCB-I STEEL PRIMER between 45°F and 100°F. Thoroughly mix parts “A” and “B” until a consistent red color is achieved. Apply the mixed Jeffco ACP11 by roll, brush or spray at 10 mils. Surfaces are tack free and ready for recoat in 24 hours.

Adhesion Tests

A severely rusted bridge girder was used as the source for steel test panels. Prior to application of Formulation 2443S1, test samples of approximately 8Δ x 5Δ in size were cut and power cleaned using cut brushes. The clear sealer was applied to the rusty steel via brush and allowed to cure at room temperature for 72 hours. A stainless steel epoxy finish (Epon 1001/polyamide curing agent) was applied over the sealer at a dry film thickness of 2.0√2.5 mils. Following a 10-day cure schedule (72 °F/50% RH), aluminum dollys were fixed to the top coat using an epoxy adhesive. After a further 3 days cure, the dollys were pulled using an Elcometer test apparatus, in accordance with ASTM methodology (ASTM D 4541). Resultant bond strengths were in excess of 750 psi, indicating that the mode of failure occurs within the rusted layers of the steel. No problems were observed relating to intercoat adhesion failure between sealer and stainless steel finish, and no breakdowns were seen in the sealer coat itself.

Results obtained show CarbonWrap™ PCB-I STEEL PRIMER has the potential to provide excellent corrosion resistance. The pore resistance of coatings applied to grit blasted steel (9 mil, DFT) was in excess of 10^{10} ohms following 24 hours exposure to the electrolyte solution (1M NaCl). This value is comparable to results obtained for many solvent-borne coatings used in industrial maintenance primers. CarbonWrap™ PCB-I STEEL PRIMER also exhibits excellent humidity resistance. After 1000 hours of continuous exposure in the Cleveland humidity cabinet, the test panels remained free from field blisters and other defects:



HOW SUPPLIED: CarbonWrap™ PCB-I STEEL PRIMER is available in 2 gallon, 10 gallon and 100 gallon kits, FOB Tucson, Arizona.

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