

GENERAL DESCRIPTION

AMP-UP™ RB is a single component, environmentally friendly, self-healing, water-based rebar protection solution.

AMP-UP™ RB is designed for protecting reinforcing or structural steel before, during, and after application of concrete.

AMP-UP™ RB utilizes patented self-healing technology that helps maintain adhesion and corrosion resistance on rebar subject to damage.

FEATURES

- One-component system
- Long Recoat Window
- Long Lasting Corrosion Protection
- Patented self-healing technology
- Low VOC (< 50 g/L)

SURFACE PREPARATION

ALL SURFACES: Remove dirt, dust, oil, salt, and any other chemical contaminants by washing the surface with a cleaner/degreaser and water. Mold and mildew areas must be cleaned with a chlorinated cleaner or bleach solution. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application.

REINFORCING OR STRUCTURAL STEEL: Remove loose rust, mill scale and coatings in accordance with hand tool (SSPC-SP-2) or power tool (SSPC-SP-3) cleaning. For optimum corrosion performance, abrasive blast to SSPC-SP-6 Commercial Grade is recommended.

CONCRETE and MASONRY: Remove weak or deteriorated concrete and masonry to obtain sound surface. Remove dirt, dust and other contamination from the surface by air blowing, brushing, scrubbing or other acceptable method. Avoid leaving cleaner residues on the surface of the concrete if used.

EQUIPMENT RECOMMENDATIONS

BRUSH: Use a good quality synthetic bristle brush.

ROLLER: Use a good quality synthetic nap roller cover.

THINNING

Thinning is normally not required. Thin with water as needed for desired application viscosity (up to 1 pint per gallon).

REBAR COVERAGE

Imperial Bar Size	Nominal Diameter (in)	Linear Coverage at 3 mils DFT (ft)
#3	0.375	2000
#4	0.500	1500
#5	0.625	1200
#6	0.750	1000
#7	0.875	850
#8	1.000	750
#9	1.128	650
#10	1.270	600

CLEAN-UP:

Use soap and water immediately after use.

PERFORMANCE

METRICS	METHODS	RESULTS
PENCIL HARDNESS	ASTM D3363	H (after 7 days)
FLEXIBILITY (MANDREL BEND)	ASTM D522	>40%
IMPACT RESISTANCE (DIRECT)	ASTM D2794	100 inch-lbs
TABER ABRASION	ASTM D4060 (CS10, 1000g, 1000 cycles)	57 mg loss
CROSS-HATCH	ASTM D3359	5B
CORROSION PERFORMANCE	ASTM B117 (1000h of exposure)	1.5 mm of creep from scribe
REBAR PULL-OFF ADHESION	ASTM D7913 (#5 rebar, 28-day concrete cure)	bare: 21,510 lbs AMP-UP RB: 21,333 lbs (99% of bare rebar adhesion)

PHYSICAL PROPERTIES

Application and Curing Conditions	Temperature Range	>40 °F (>4 °C)
	Relative Humidity	Less than 85%
	Surface Temperature	5°F (3°C) above dew point
Resin Type		Water-Based Epoxy Amine Adduct
Pigment type		Metal Oxides (Varies with color)
Solvent		Water
Weight	Per Gallon	10.4 - 10.5 lbs.
	Per Liter	1.2 - 1.3 kg
Solids	By Weight	52 %
	By Volume	40 %
Volatile Organic Compounds		47 g/L
Recommended Dry Film Thickness (DFT) Per Coat		2.0 - 3.0 mils (51- 76 µm)
Wet Film to Achieve DFT		5.0 - 8.0 mils (127 - 203 µm)
Theoretical Coverage at Recommended DFT		200 - 320 sq. ft./gal. (4.9 – 7.9 m ² /L)
Minimum Dry Times at 70-80 °F (21-27°C) and 50% Relative Humidity	Tack-Free	0.5 - 1 hour
	Handle	2 - 4 hours
	Recoat (AMP-UP RB)	1 – 4 hours
	Concrete Application	1 hour to 180 days
Dry Heat Resistance		200°F (93°C)
Shelf Life		1 year (Below 40°C)
Safety Information		See SDS

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