

A1 Primecoat™



Item# MP1R Revised: 3/20/2011

Steel Holding Primer, Metal Barrier Prime Coating

Description

Epoxytec A1 Primecoat™ is a surface tolerant, two-component, multi-purpose primer (barrier coat). Formulated for high film build and long term protection from salt/fresh water, as well as a wide variety of chemical exposures. Exceptional corrosion protection. Excellent adhesion to tight rust. Fine adhesion to damp surfaces. Ideal for maintenance painting and fabrication shop applications. The high solids content ensures adequate protection of sharp edges, corners, and welds.

Typical Uses

Epoxytec A1 Primecoat™ is ideally suited as a protective barrier coating or primer for metal and steel structures such as:

- Marine applications
- Above/below water hull areas
- Fabrication shops
- Refineries
- Pulp and paper mills
- Chemical plants
- Power plants
- Tank exteriors
- Offshore platforms
- Water & Wastewater treatment plants
- Ballast tanks
- Fuel tanks
- Bilges
- Decks
- Superstructures
- Structural steel and equipment
- Multipurpose holding primer to prevent flash rust

Features

- Excellent resistance to corrosion and chemicals
- Low viscosity
- Self leveling
- Surface tolerant
- Good flexibility
- Easy to apply by roller, brush or spray

Film Thickness

Epoxytec A1 Primecoat™ can be a single coat or a multiple coat system.

Epoxytec A1 Primecoat™ can be applied onto a surface at 6 mils (minimum) - 12 mils (maximum) per coat DFT. For a total coating thickness exceeding 12 mils, multiple coats are necessary.

Theoretical Coverage

Epoxytec A1 Primecoat™ has a small percentage of solvents. Therefore, the theoretical coverage properties between wet film thickness (WFT) and dry film thickness (DFT) are the different.

One-hundred and thirty (130) square feet per gallon at 10 mils thick DFT. Actual coverage will depend on surface conditions, irregularities, and surface profile.

Application Method

Brush, rollers, spray.

IMPORTANT: Induce for fifteen (15) minutes.

Equipment Options:

Brush: Good quality 4" wide brush with short hair bristles.

Roller: 1/8" – 1/4" mohair

Conventional Spray: DeVilbiss MBC-510 gun; E Tip and 704 Air Cap; 1/2" ID material hose; double regulated pressure tank with oil and moisture separator.

Airless spray – Graco 30:1 ratio pump with large surge chamber; Reverse- A-Clean tip with .019" to .023" orifice.



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Thinning

Epoxytec does not advise thinning Epoxytec A1 Primecoat™. Pinholing due to solvent addition could be a result.

Surface Preparation

The success of any coating application is directly proportional to the completeness of the substrate preparation and the care the application crew puts into the application.

Surface must be clean and sound. Remove all dust, contaminants, grease, curing compounds, loose rust, impregnation, waxes, foreign particles, and disintegrated materials from the surface, in order to achieve a clean and profiled surface.

Before preparing steel, please inspect and remove oil, grease, or other contaminants - "Solvent Cleaning" (SSPC-SP1) may be required. Ideally, abrasive blasting or other approved mechanical methods are recommended in order to achieve a clean surface with a minimum profile of 1.5 - 3 mils

Storage & Handling

- Shelf life: 24 months, sealed.
- Storage: Store in a dry area away from direct sunlight. The material should be stored between 60° F and 80° F.

Safety

Consult Material Safety Data Sheet (MSDS) for all material safety information.

Packaging & Color

- 5 Gallon Kit (pails) Item# MP1R-G5-R (red)
Item# MP1R-G5-O (olive)
- 1 Gallon Kit (pails) Item# MP1R-G1-R (red)
Item# MP1R-G1-O (olive)

Technical Properties

Finish		Semi-gloss
Mix Ratio		4 to 1 (by volume)
Type		Epoxide/Epoxy
Solids by Volume/Weight	ASTM D2697	80%/86%
Solvent (VOC) by Volume/Weight	ASTM D3960	20%/14%
Weight/Gal.		10.5 lbs.
Flash Point	ASTM D3278	70 F
Adhesion (steel)	ASTM D4541	1,100 psi
Pot Life		3 hrs. (25 C / 200 g mass)
Operational Temperature		45F - 110F
Dry Time		6 hours (77F)
Complete Cure (exposed, service)		48 hours (77F)
Recoat Time		6 hr. (77F) min. – no max.



Important! Although the technical details and recommendations contained in this data sheet correspond to the best of our knowledge and experience, all the above information must, in every case be taken as merely indicative and subject to confirmation after long-term practical applications; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product. The sole liability of Epoxytec for any claims out of the manufacturer's use of sale of its products shall be for the buyer's purchase price.