MCOR™ E1 Primer
Product Technical Data

Single-component, solvent-based epoxy primer & adhesion promoter

MCOR™ E1 Primer is a single-component polymer primer formulated to provide base coat adhesion promotion prior to applying polymers concrete, steel and other substrates. Provides an excellent cross-link with added adhesion and wetting assistance. Especially formulated for quick and rapid drying. Formulated to assist in the adhesion of coating applications, adhesives, and other epoxies; particularly improves the adhesion of elastomers.

Applications
MCOR™ E1 Primer is ideally suited as primer to enhance bond or wetting capabilities for polymers on challenging surfaces.

Features
- One-component
- Rapid dry time
- Low viscosity
- Surface tolerant
- Easy to apply by roller, brush or spray

Film Thickness & Theoretical Coverage
MCOR™ E1 Primer may be applied at 50 - 75 microns (2-3 mils). 14 m^2/kg. 75 mm (150 ft^2/kg. at 3 mils DFT). Actual coverage will depend on surface conditions, irregularities, and surface profile.

Surface Preparation
The success of any coating application is directly proportional to the completeness of the substrate preparation. Surface must be clean, sound and properly profiled. Verify that the temperature of the surface is at least 3 degrees C (5 degrees F) higher than the dew point temperature to preclude condensation.

Metal: Before preparing steel, inspect and remove oil, grease, or other contaminants - "Solvent Cleaning" (SSPC-SP1) may be required with MCOR™ #5 Cut & Clean. Grind any weld spatter or inconsistencies. Abrasive blasting (or other approved mechanical methods) to SSPC-SP6/NACE 3 "Commercial Blast Cleaning" must be utilized in order to achieve a clean surface with a minimum profile of 75 microns (3 mils). Remove dust and debris by high compressive air; or solvent cleaning (SSPC-SP1) may be require again.

Concrete: Remove all oil, dirt, and contaminates and prepare the concrete by abrasive blasting, high pressure water blasting, jetting and/or approved mechanical methods to SSPC SP-13/NACE No. 6 "Surface Preparation of Concrete." Surface should be dry and free of dust; substrate should be sound, a pH of 7 or above, and profiled to a minimum ICRI CSP 4.

Application Method
Supplied in one (1) container as a unit. Agitate thoroughly with a power agitator. Apply thin (do NOT apply thick, avoid pooling).

Equipment
Brush: wide brush with short hair bristle.
Roller: mohair roller. Only use high quality Purdy® Golden Eagle™ brands or similar.
Spray: If spraying, utilize conventional and/or airless spray equipment. Purge with MCOR™ #5 Cut & Clean.

Technical Properties

Mix Ratio	N/A
Solids by Weight	20 - 30%
Pot Life @ 25C (77F)	2 hrs. once opened
Gel Time @ 25C (77F)	5-10 min.
Recoat Window @ 25C (77F)	15 min. – no max

Volume Capacity & Color
A unit is a single-component. The volume capacity of a 1 kg of mixed MCOR™ E1 Primer is 1.05 Liters.

MCOR™ E1 Primer is available in:
- N/A (Clear)

Storage & Handling
Shelf life: 24 months, sealed.

Store in a dry area away from direct sunlight. The material should be conditioned to between 24 °C (75 °F) and 35 °C (95 °F) before use.

Clean tools with MCOR™ #5 Cut & Clean.

Thinning
Thinning is not recommended.

Limitations
IMPORTANT: MUST KEEP CONTAINER CLOSED when not being used. Apply in good weather when air and surface temperatures are above 13 °C (55°F). For optimum application properties, condition the material to 21 °C (70 °F) temperature range prior to mixing and application.

Apply thin (not to exceed 25 - 75 microns), as excess will adversely affect cure and drying time.

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

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