

MCOR™ Primecoat™ SE

Product Technical Data

Solvent-based epoxy primer and
sealer barrier base coating
for concrete/masonry

MCOR™ Primecoat™ SE is a solvent-based epoxy designed as a high performance sealer, primer and base coating formulated for concrete. MCOR™ Primecoat™ SE is supplied in a convenient one-to-one mix ratio.

MCOR™ Primecoat™ SE is capable of penetrating and filling the porous structure of concrete in order to provide an effective subsurface barrier to prevent moisture migration, out-gassing, and chemical penetration.

MCOR™ Primecoat™ SE exhibits highly penetrating properties which provide porous filling and strengthening of the top concrete layer to form a sufficiently strong base for subsequent top coats.

Applications

MCOR™ Primecoat™ SE is ideally suited as a protective barrier coating or primer for concrete and masonry structures for moisture prevention holding, enhancing bond for top coats on challenging surfaces, added sealing and protection, enhancing peak retention of top coats, outgassing mitigation, and general priming.

Features

- Excellent resistance to corrosion and chemicals
- Convenient 1:1 mix ratio
- Low viscosity
- Self-leveling
- Surface tolerance
- Good flexibility
- Easy to apply by roller, brush or spray

Film Thickness & Theoretical Coverage

MCOR™ Primecoat™ SE is a 50% solid coating that will result in a WFT/DFT difference.

MCOR™ Primecoat™ SE may be applied at 125-150 microns (5-6 mils) DFT, requiring 250-300 microns (10-12 mils) WFT.

3.4 m²/kg. at 0.25 mm DFT (22 ft²/lb. at 5 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 and the care the application crew puts into the application. Surface must be clean and sound. 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.

Concrete: Meet standards suggesting in NACE No. 6/SSPC-SP 13, "Surface Preparation of Concrete."

Metal: Before preparing steel, please inspect and remove oil, grease, or other contaminants - "Solvent Cleaning" (SSPC-SP1) may be required. Grind any weld spatter or steel weld inconsistencies. Abrasive blasting (or other approved mechanical methods) to SSPC SP-6/NACE No. 3 "Commercial Blast Cleaning" must be used in order to achieve a clean surface with a minimum profile of 60 microns (2.5 mils); remove dust and debris by high compressive air or solvent cleaning (SSPC-SP1) may be required again.

Application Method

Supplied in two (2) containers (base+cure) as a unit.

Combine entire contents of cure with base and mix thoroughly with a power agitator. Mix for five (5) minutes and be aware of pot life (higher temperature and mass accelerates pot life).

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.

Note: Only use high quality Purdy® Golden Eagle™ brands or similar. Purge with MCOR™ #5 Cut & Clean.

Volume Capacity & Color

A unit is a two-component (base+cure)

The volume capacity of a 1 kg of mixed MCOR™ Primecoat™ SE is 1.15 Liters.

MCOR™ Primecoat™ SE is available in:

- N/A (clear)



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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 MCOR and Epoxytec International, Inc. for any claims out of the manufacturer's use of sale of its products shall be for the buyer's purchase price.

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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

Thin with MCOR™ #1 Reduction not to exceed 1% by volume.

Limitations

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.

Safety

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

Technical Properties

Type	Solvent-base epoxy
Mix Ratio	1:1 by volume 1.1 : 1 by weight
Volume Solids (ASTM D2697)	50% (+/- 2%)
Pot Life @ 250C (770F)	8 – 10 hrs.
Initial Cure @ 250C (770F)	12 hrs.
Recoat Time @ 250C (770F), recoat	12 hrs. – 24 hrs.
Final Cure @ 250C (770F)	7 Days
Seward Hardness	70 – 75



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