

Solvent-Based Epoxy Floor Primer

DESCRIPTION • *EpoPrime EP1* is an economical, clear, low viscosity epoxy floor primer.

USES • *EpoPrime EP1* is used as a primer coat for receiving an epoxy or polyurethane floor coating system.

ADVANTAGES •

- ✓ One coat application.
- ✓ Penetrating primer.
- ✓ High build to use over mechanically prepared substrates (i.e. shot blast or grinded).
- ✓ Excellent adhesion.
- ✓ Reduces bubbling and pinholes when coating porous substrates.
- ✓ Easy to apply.

PHYSICAL PROPERTIES •

Color	Clear
Solids Volume (ASTM D 2939)	40%
VOC (ASTM D 2697)	< 360 g/L
Application Temperature	12°C to 35°C
Application Relative Humidity	85% maximum
Pull Off Strength (ASTM D 4541)	2.0 N/mm ² Failure within Subst.
Pot Life@ 25°C	45 minutes
Dry Time @ 25°C	4 hours
Tack Free	6 hours
Density (g/cc)	1.03

COVERAGE • Application rate will vary according to surface conditions and profile, application technique and job conditions. Coverage rate of 3-5 m²/l is dominant at 80 microns DFT.

SURFACE PREPARATION • All concrete surfaces must be fully cured for a minimum of 28 days, sufficiently rigid, and clean of any surface contamination such as oil, dirt, grease, coatings, curing compounds, and laitance that may prevent proper adhesion. Dense, smooth surfaces, and those retaining excessive amount of form release agent can cause delamination from the base. Any painted or coated surfaces should be sandblasted and/or grinded to remove existing coatings. Use of detergents or soap is not recommended as they may leave a film that can cause bonding failure. The substrate should also be visibly dry. Concrete slabs, on or below grade, must have an efficient moisture/vapor barrier placed by the general contractor directly under the slab.

The concrete substrate should preferably be steel trowel finished. The surface should be prepared

mechanically by grinding or shot blasting to achieve a rough profile and remove laitance, curing agents, or contaminants.

Use mechanical grinding along with patching to achieve the required surface level. Use only epoxy-based products for patching such as *MortCrete 3000 Multi-purpose Epoxy Mortar* and/or *EpoCrete 5000 Epoxy Screed*; cement-based patching products may require proper curing time before the coating can be applied.

Damaged areas, surface irregularities, and cracks must be repaired with *MortCrete 3000 Multi-Purpose Epoxy Mortar* prior to application. Remove all unsound concrete. Patches shall be flush with the surrounding surface and shall match the texture of existing surfaces.

Surrounding areas should be covered and protected from material spills and equipment contact. Rope off work area, remove surrounding vehicles, and close off to traffic.

MIXING • The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly for at least 3 minutes. Use a heavy duty slow speed power drill with a jiffy mixing blade. Mix the two components in the quantities supplied taking care to ensure hardener container is scraped clean. Do not add solvent thinners at any time.

APPLICATION • Application should take place when the temperature is between 12°C to 35°C. After mixing immediately pour a substantial portion of mixture onto the floor and spread with a rubber squeegee, using sufficient pressure to work the primer into the porous surface. Immediately back roll the material with a quality 3/8" nap roller leaving 7 to 9 mils on the surface.

The product is designed to be applied thin. Do not use this product to fill or level any surface imperfections. Any build up in excess of 12 mils wet film thickness will not cure properly.

The fast set primer can be top coated in as little as 4 hours at 25°C. For best results, apply the epoxy or polyurethane base coat while the primer is still tacky but dry to the touch. If pinholes or porosities are evident after the initial cure of primer, re-priming may be necessary, especially on very porous concrete.

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CLEANING • Tools and equipment must be cleaned with an organic solvent.

STORAGE & SHELF LIFE • Product should be stored at 25°C in dry conditions away from direct sun light and sources of direct ignition and flames. Shelf life is approximately 15 months from date of purchase in original unopened container at specified storage temperature.

SAFETY PRECAUTIONS • **FLAMABLE.** Do not expose to sources of flame or ignition. Do not smoke during application or near fresh material. The application of material should be under good ventilation. Avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately.

PACKAGING • 12.5 kg pack (includes hardener and base components).

Creative Concrete Concepts

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