

EpoPrime 100

Epoxy Floor Primer



DESCRIPTION • *EpoPrime 100* is a solvent-free, low viscosity, high build epoxy primer.

USES • *EpoPrime 100* is used as a primer as well as a base coat for receiving an epoxy or polyurethane floor coating system.

ADVANTAGES

- ✓ One coat application.
- ✓ Penetrating primer.
- ✓ Low odor.
- ✓ High build, enabling broadcast of silica aggregates for mechanical keying of later coats.
- ✓ Excellent adhesion.
- ✓ Reduces bubbling and pinholes when coating porous substrates.
- ✓ Easy to apply.

PHYSICAL PROPERTIES

Color	Clear
Mix Density	1.1 ± 0.05
Solids Volume	100%
VOC	< 25 g/L
Pull Off Strength (ASTM D 4541)	2.3 N/mm ² Failure within Subst.
Application Temperature	12°C to 40°C
Relative Humidity	85% maximum
Pot Life	20 minutes at 25°C
Dry Time @ 25°C	4 hours
Tack Free	6 hours

COVERAGE • Application rate will vary according to surface conditions, application technique and job conditions. Coverage rate is approximately 4.5-5 m²/kg at 200 micron DFT per coat.

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 must be prepared mechanically by grinding or shot blasting to achieve a rough profile and remove laitance, curing agents, and 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 40°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 150 to 250 microns on the surface.

The fast set primer can be top coated in as little as 8 hours at 25°C. The primer must be tack-free before top coating. If pinholes or porosities are evident after the initial cure of primer, re-priming may be necessary, especially on very porous concrete.

The primer must be top coated within 48hrs to ensure adequate inter-coat adhesion.

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

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life is approximately 12 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 • 5 kg packs (includes hardener and base components).

Creative Concrete Concepts

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