

Clear Epoxy Floor Coating

DESCRIPTION • *EpoCrete 100* is a two component, solvent-free, high build, self-leveling epoxy resin floor coating that cures to a clear high glossy finish. The cured film forms a hard coating with high clarity specifically developed for decorative applications.

USES • *EpoCrete 100* is used to provide a clear coating with a high degree of gloss and optical clarity, while also providing a highly abrasion and chemically resistant coating that is suitable for heavy commercial as well as industrial applications. *EpoCrete 100* is ideal as the final protective coating for decorative systems such as terrazzo, colored concrete and 3-D graphic prints in thicknesses ranging from 250 to 3,000 microns.

ADVANTAGES •

- ✓ High impact, chemical and abrasion resistance.
- ✓ Self leveling.
- ✓ High build, up to 2-3 mm.
- ✓ High gloss and optical clarity
- ✓ Provides a hygienic, impervious finish.
- ✓ Easy to apply with roll or squeegee.

LIMITATIONS • Never apply to new concrete surfaces before they have been allowed to cure for a minimum of 28 days. NOT SUITABLE FOR OUTDOOR APPLICATIONS - UV radiation will cause discoloration.

PHYSICAL PROPERTIES •

Specific Gravity	1.1 ± 0.05
Solids Volume	100%
Pot Life	30 min at 25°C
Dry Time 25°C	8-10 hours to touch 16-24 hours to recoat
Full Cure	7 days at 20°C 5 days at 35°C
Shore D Hardness ASTM D 2240 - 91	60

CHEMICAL RESISTANCE • Fully cured *EpoCrete 100* has been tested for chemical resistance to the following chemicals for 7 days @ 25°C:

- | | |
|---------------------|-----------|
| • Gasoline | Excellent |
| • Petrol | Excellent |
| • Diesel | Excellent |
| • Brake Fluid | Excellent |
| • Sulfuric Acid 10% | Excellent |
| • HCl 10% | Excellent |
| • Acetic Acid 5% | Excellent |

COVERAGE • Application rate will vary according to surface profile and roughness, application technique and job conditions. Coverage rate is typically 0.45 m²/kg at 2000 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 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 by mechanical means; do not hand mix. 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.

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APPLICATION • Pour the mixed contents of the can into a plastic tray. *EpoCrete 100* should be applied to prepared surfaces using a short hair roller while wearing spiked shoes. Ensure that the area is completely coated. For high build applications pour the mixed contents onto the floor and use a squeegee, notched trowel, gauge rake, or magic trowel to coax the material into place and spread to achieve the desired thickness. *EpoCrete 100* is self-leveling and will achieve a flat surface when left undisturbed during its pot life.

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

STORAGE & SHELF LIFE • Product should be stored at 25°C in dry conditions away from direct sun light. Shelf life is approximately 12 months from date of purchase in original unopened container at specified storage temperature.

SAFETY PRECAUTIONS • Non-Flammable. 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.

The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.

PACKAGING • 4.5 L (5 kg) kit (includes hardener and base components).

Creative Concrete Concepts

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