

Clear Encapsulation Resin

DESCRIPTION • *EpoCrete 101* is a two component, solvent free, high-build epoxy resin that cures to a clear glossy finish.

USES • *EpoCrete 101* is recommended for clear castings and encapsulation of small objects for decorative purposes. It can also be used a clear coating.

ADVANTAGES •

- ✓ Excellent transparency and clarity
- ✓ Resistant to yellowing.
- ✓ High impact and abrasion resistance.
- ✓ Provides a hygienic, impervious finish.
- ✓ High gloss finish.
- ✓ High chemical resistance.

LIMITATIONS • As a coating *EpoCrete 101* maybe be applied in thicknesses of 1-10 mm for casting small objects such as decorative stone pebbles or seashells. For larger applications *EpoCrete 101* must be applied in multiple passes; please consult technical support. *EpoCrete 101* is suitable for foot traffic areas.

For encapsulating objects inside a mold, *EpoCrete 101* may be applied in one pass in quantities up to 1 kg. For larger quantities, due to the high heat release during curing the material must be tested for required number of pours depending on the shape and volume of the object to be encapsulated.

PHYSICAL PROPERTIES •

Specific Gravity	1.05 ± 0.05
Solids Volume	100%
Pot Life	15 min at 25°C
Dry Time 25°C	16 hrs
Full Cure	7 days at 25°C 5 days at 35°C
VOC	<50 gm/l

CHEMICAL RESISTANCE • Fully cured *EpoCrete 101* samples have 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. As a coating, coverage rate of 0.9 kg/m² at 1 mm (WFT) is dominant.

SURFACE PREPARATION • Compatibility of the object should be checked before encapsulation. Silicone based molds are recommended for small castings. Depending on mold suitable release agent should be used.

When applied as surface coating, 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.

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 • For encapsulating objects, the mixed *EpoCrete 101* may be poured directly into the prepared mold.

For floor applications *EpoCrete 101* may be applied to prepared surfaces using a squeegee or a short hair roller while wearing spiked shoes. Multiple coats can be applied to achieve desired high film thickness.

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

EpoCrete 101 Clear Encapsulation Resin

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 • 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 kg packs (includes hardener and base components).

Creative Concrete Concepts

PO Box 925794, Amman 1110, Jordan; Tel +962-6-487-4078, Fax +962-6-488-9133 • PO Box 91234, City of Industry, CA 91715-1234, USA; Tel +1-909-266-0709, Fax +1-909-266-0711 • PO Box 31017, Sharjah, UAE; Tel +971-6-532-1119, Fax +971-6-532-8833