KingRep ® EP5

Two-component, solvent free flooring epoxy putty-filler.

DESCRIPTION

KingRep EP5 is two-component non-shrinking solvent free epoxy putty designed to fill imperfection irregularities and fairing the surface of interior and exterior concrete floors prior to applying topcoats. It is compatible with common epoxy resin coatings.

Appearance:	Grey paste

APPLICATIONS

- Filling and repairing holes, cracks, joints on floors before coating.
- As a skim coat/filler on prepared floors prior to application of finish coatings.
- As Concrete repair: Repairing damaged concrete, crack filling, leak proofing on horizontal surfaces.

ADVANTAGES

- High strength with a non-shrinking feature.
- Excellent wear, impact and chemical resistance properties.
- High adhesion strength to different substrates.
- Water impermeable.

METHOD OF USE

Surface Preparation

The surface must be structurally sound, free from oil, grease and other forms of contamination. Mechanical grinding of the concrete floor is recommended for removing all surface contaminants.

Mixing

KingRep EP5 comprises two components, a resin base and a hardener, which are supplied reweighed in the correct proportions under no circumstances should part mixing be carried out.

The two components should be mixed well until a uniform consistency and colour are obtained, this should be ideally carried out using a mechanical mixer.

Mixing of 1 kg packs can be done by hand but care must be taken to ensure homogenous mixing. In cold weather, mixing will be aided if the containers.

TECHNICAL PROPERTIES

KingRep ® EP5

Compressive strength:	> 35 MPa @ 1 day > 45 MPa @ 3 days > 60 MPa @ 7 days
Mixed density:	1.70 ± 0.05 g/cm^3
Application thickness:	0 - 5 mm
Application temperature:	5 to 35°C
Initial hardness:	20 hr @ 25°C
Full cure:	7 days

The effectiveness of decontamination should be evaluated using a pull-off test.

Application
Application can be carried out by a steel trowel or putty knife or scraper. Press firmly the mixed mortar into the area to be filled to ensure proper adhesion and full contact.

The epoxy putty can be applied at a maximum thickness of 5 mm in one layer. Additional layers should be applied after the applied mortar achieves its initial cure. The area repaired with KingRep EP5 can be over-coated with an epoxy or polyurethane coating after it achieves its initial cure.

WORKING TIME
KingRep EP5 has a working time between 1.5 – 3.0 hours at 25°C.

Mixed material should not be left standing for any length of time prior to application, as this will considerably reduce its working time.

CURING
KingRep EP5 should be allowed to cure for 24 hours at 20°C before being subjected to foot traffic. KingRep EP5 should never be applied in direct sunlight.

At the same temperature, full mechanical and chemical properties are achieved after 7 days (please consult our Technical Department for details of curing times at other temperatures).

CLEANING
Clean uncured material with KingRep solvent. Cured material can only be removed mechanically.

PACKAGING
KingRep EP5 is available in 1 and 5 kg packs.

YIELD
1 kg Pack (approximately 0.61 litre).

STORAGE
Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

HEALTH AND SAFETY
As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

NOTE
Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE
All products originating from KingKrete's manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

* Properties listed are based on laboratory-controlled tests.

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