KingRep® PE100

Two component polyester repair mortar.

DESCRIPTION

KingRep PE100 is a two components, high strength and fast setting repair and bedding mortar. It is designed for rapid repairs and as a fast curing adhesive. It is also used as re-profiling mortar for concrete, masonry, pre-cast concrete units and elements.

APPLICATIONS

- General concrete repair mortar.
- Bedding and fixing mortar for manhole sets and kerbstones.
- Bedding and fixing mortar for frames, brick slips, slabs and coping stones.
- As fast set repair mortar for pre-cast elements and units.

ADVANTAGES

- Fast curing, even at low temperatures.
- High strength development.
- Easty to use.
- Excellent adhesion to concrete.
- Easily shaped and placed.
- Very good chemical resistance.
- Resistance to water and weathering.
- High chemical and oil resistance.
- Pre-packed components ensure consistancy.

METHOD OF USE

SURFACE PREPARATION

The surface must be structurally sound, free from oil, grease and other forms of contamination. Concrete surface should be dry and suitably prepared either by scabbling or grit blasting to remove any surface laitance. Steel surfaces should be grit blasted to remove all rust and scale. (See the KINGKRETE Guide to Surface Preparation for further details).

PRIMING

KingRep PE100 has excellent adhesion to sound surfaces but the use of a primer is recommended if the surface is damp. The primer in this case consists of the neat Resin, as supplied, mixed with a little of the Filler component. An approximate 10:1 Resisns: Filler ratio will be ideal for the purpose. The mixture should be brushed vigorously into the surface to be bonded.

TECHNICAL PROPERTIES

Colour:	Concrete grey
Specific gravity:	1.95 ± 0.05
Compressive strength @ 25oC: BS6319, Part 2 : 1983	≥ 65 MPa @ 3 hr ≥ 75 MPa @ 1 day ≥ 85 MPa @ 7 days
Tensile strength: BS6319, Part 7 : 1985	10 MPa @ 3 hr 11 MPa @ 7 days
Application temperature:	0 - 30oC
Service temperature:	-20 - 80oC
Pot life:	20 min @ 20ºC
Adhesion to concrete:	> 3 MPa (concrete failure)
Chemical resistance:	Excellent to most diluted acids, alkalis, solvents, grease, oil, etc.

MIXING

KingRep PE100 comprises two components, a liquid resin and filler which are supplied preweighed in the correct proportions. Under no circumstances should part mixing be carried out.

Using a mixing paddle attached to a slow speed electric drill, the filler should be added to the liquid resin and mix thoroughly for 3 minutes until cream-like, putty consistency has been obtained.

APPLICATION

The KingRep PE100 mixed to the standard, putty- like, consistency should be applied within 15 minutes of applying the primer.

Apply the patching material with a small trowel or spatula and featheredge with a brush.

CURING

The material will cure rapidly, even at low temperatures. Repairs with KingRep PE100 may be put back into service following 1 hour cure at 20oC, 2 hours at 10oC, or 6 hours at 0oC.

CLEANING

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

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PACKAGING

KingRep PE100 is available in 1, 4 and 7.5 kg pack.

SPECIFIED THICKNESS RANGE

KingRep PE100 can be applied at thicknesses between 1 mm - 25 mm for horizontal applications and up to 10 mm for vertical applications.

YIELD

1 kg pack yields 0.5 litres.

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 Middle East facility are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, ISO 14001 and ISO 45001.

* Properties listed are based on laboratory-controlled tests.
® = Registered trademark of the KingKrete-Group in many countries.

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KingKrete Middle East
Qatar – Syria
www.kingkrete.com

Disclaimer: the IAS mark relates to certified management system and not to the product mentioned on this datasheet