KingRep ® PE200

Rapid setting polyester resin mortar.

DESCRIPTION

KingRep PE200 is a two-component, fast cure and high strength polyester resin mortar, that once cured produces a stiff supporting mortar, designed primarily for use in the rapid installation and reinstatement of manhole covers and frames in heavily trafficked areas.

APPLICATIONS

Installation and reinstatement of manhole frames, gully grates, kerbs and street furniture in heavily trafficked areas.

ADVANTAGES

- Fast set.
- Exceptional physical properties and mechanical strength.
- High bond strength to concrete substrates.
- Good chemical resistance
- High ultimate and early strength
- Non-shrink mortar.

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 undesired surfaces.

Steel surfaces should be clean, free from oil, grease and other forms of contamination.

Mixing

KingRep PE200 comprises of two components, a resin base and filler which are pre-weighed to the correct proportions. Under no circumstances should part mixing be carried out.

Ensure that the bottom and sides of resin pack are thoroughly scraped; transfer the entire content of the resin into a plastic container and start adding the filler slowly while mixing for approximately 3 minutes or until a uniform consistency is obtained, to ensure proper mixing, a forced action mixer, drill fitted with suitable paddle or vigorous hand mixing with an appropriate tool should be used.

TECHNICAL PROPERTIES @ 25°C:

Compressive strength: BS 6319, part 2:1983	> 65 MPa @ 1 hr > 75 MPa @ 2 hr
Tensile strength: BS 6319, part 7:1985	> 8.5 MPa @ 1 hr > 9.0 MPa @ 2 hr
Flexural strength: EN 13892-2	> 22 MPa @ 1 hr > 24 MPa @ 2 hr
Bond strength over C25/30 concrete: ASTM D4541	≥ 2 MPa @ 1 day (concrete failure)
Workability:	5 - 15 min @ 25°C
Set time:	20 min @ 25°C

Application

KingRep PE200 should be applied over the required area once mixed. Place the mortar well into position using a suitable float, minimum thickness of 5mm and a maximum of 50 mm should be maintained.

Place the manhole frame onto the bedding mortar carefully to prevent voids in the bedding material under the frame, ensure that the frame is fully supported and not overhanging the mortar at any point. Place the backfill material once the bedding mortar has reached its initial set.

WORKING CONDITIONS

KingRep PE200 should not be applied at temperatures below 5°C.

WORKING TIME

KingRep PE200 has a working time of approximately 5 - 15 minutes at 25°C.

CLEANING

All tools should be cleaned immediately after finishing by KINGKRETE Solvent. Hardened materials can be cleaned mechanically.

PACKAGING

KingRep PE200 is available in 25 kg set comprising resin base and filler component.

SPECIFIED THICKNESS RANGE

KingRep PE200 can be applied in a single layer at thicknesses between 5 - 50 mm.

YIELD

Approximately 12.0 litres for each 25 kg set.

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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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