KingRep ® 10

Crack filling polymer modified cementitious fairing coat repair mortar.

DESCRIPTION

KingRep 10 is a one component acrylic polymer modified powder. When mixed with water KingRep 10 produces a highly consistent, smooth, trowel able mortar.

APPLICATIONS

- For crack filling.
- For fair-faced concrete repair.
- As a thin layer render.
- As a skim coat for pin holes and minor honeycombed concrete repair.
- As pore sealer and leveling mortar.
- To produce a uniform surface for subsequent paint finish.

ADVANTAGES

- Shrinkage controlled polymer modified cementitious repair mortar which reduces any potential cracking.
- Easy to apply, single component which requires only addition of water.
- Excellent adhesion to concrete, no independent primer or curing is required.
- Compatible with other types of protective coatings.
- Can be applied from 1 mm - 10 mm thicknesses.
- Suitable for internal and external applications.
- Cost effective, hand applied no formwork is required.
- Non-toxic.

METHOD OF USE

Substrate preparation

All surfaces should be clean, sound and uncontaminated prior to the application of KingRep 10. The prepared area should be cleaned thoroughly by brush and/or compressed air. Cracks should be marked and cut into 6 mm v-grooves shape. The prepared area should be soaked with water immediately prior to the application of KingRep 10.

Priming

No independent primer is required.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

TECHNICAL PROPERTIES

Working life:	40 - 60 min @ 25°C 20 - 40 min @ 35°C
Setting time:	2 – 3 hr
Colour	Grey & white
Coefficient of thermal expansion:	6.5 to 12 × 10^{-6} m/1˚C
Water:Powder ratio:	0.23 - 0.27
Mixed density:	1.7 ± 0.1 g/cm³
Recommended application temperature:	5 to 35°C
Application thickness:	1 - 10 mm
Maximum aggregate size:	0.35 mm
Compressive strength: ASTM C109/109M-02	≥ 15 MPa @ 28 days
Flexural strength: ASTM C348	≥ 2.5 MPa @ 28 days
Tensile strength: ASTM C307	≥ 1.2 MPa @ 28 days
Bond strength: ASTM C1583	1 MPa @ 10 mm thickness
VOC: ASTM D2369	< 5 g/ltr

Note: Declared results above are for the grey colour.

For 25 kg bag, 5.75 - 6.75 litre of fresh water should be added to a clean container. The powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until uniform consistency is obtained.

PLACING AND FINISHING

KingRep 10 can be applied by steel trowel. The mixed mortar can be applied to the prepared substrates at thicknesses between 1 - 10 mm. The applied mortar should be allowed to stiffen before trowelling to a smoother finish.

CURING

Curing is not required for KingRep 10 in normal ambient conditions. In the case of harsh weather conditions, such as high wind and temperatures, it is recommended to cure with KingKure 100A or wet hessian with polyethelene.

THICKNESSES AND SIZE LIMITATIONS

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KingRep 10 can be applied by single application from 1 mm - 10 mm thickness. Higher thicknesses can be achieved by applying multiple layers.

YIELD

Approximately 19 litre per 25 kg bag.

PACKAGING

KingRep 10 is available in 25 kg bags.

CLEANING

All tools should be cleaned immediately after finishing with water. Hardened materials can be cleaned mechanically.

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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KingKrete Middle East
www.kingkrete.com