

# KingPlast<sup>®</sup> DCM100

Cementitious based decorative render for concrete.

## DESCRIPTION

KingPlast DCM100 is a two components; elastomeric polymer modified cementitious decorative coating available in many attractive colors. Suitable for internal and external applications. KingPlast DCM100 shows excellent crack accommodation and is suitable for use on concrete surfaces.

## APPLICATIONS

KingPlast DCM100 is recommended for use as external finish for:

- ☒ Building external walls.
- ☒ External fence walls.
- ☒ Concrete structures.
- ☒ Internal walls.

## ADVANTAGES

- ☒ Non-toxic.
- ☒ Cost effective, quick and easy brush or spray application.
- ☒ Waterproof.
- ☒ Decorative.
- ☒ Elastomeric, can accommodate static and dynamic cracks.
- ☒ Fungus, mould resistant.
- ☒ Excellent bond to porous and non-porous surfaces.
- ☒ Durable, UV resistant.
- ☒ Breathable.

## METHOD OF USE

### Substrate Preparation

The surfaces to be coated should be clean, sound, and free from contamination.

Remove any traces of curing compound, laitance, organic growth or any other loose materials. This is best obtained by using high pressure water or light grit blasting. Substrate containing honey combing, damaged or deteriorated concrete should be repaired using suitable repair mortars from KINGKRETE repair systems before coating.

## PRIMING

No special primer is required, but substrate should be pre-soaked with clean water prior to application of KingPlast DCM100.

## TECHNICAL PROPERTIES

Mixed density:	1.83 gm/ cm <sup>3</sup>
Working time:	45 mins
Tensile strength: BS6319, Part 7	> 2.5 MPa @ 28 days
Mixing ratio:	5 kg liquid polymer with 15 kg powder
Minimum application temperature:	5°C

## MIXING

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

Add the liquid component of KingPlast DCM100 to a clean container. The powder component is then added slowly to the liquid while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

## APPLICATION

KingPlast DCM100 can be easily sprayed and also can be applied by brush. The mixed material should be sprayed well into the surface. Care must be taken not to spread the materials too thin. The first coat should be applied at a wet film thickness of 1 mm.

When the material begins to drag, do not add any water, but dampen the surface again.

A minimum of 2 - 5 hours, depending on the prevailing ambient temperature, should be given for the first coat to cure before applying the second coat.

For brush applications, the second coat should be applied in a perpendicular direction to the previous layer to ensure good bond and coverage. To achieve a smooth finish, it is recommended to finish the surface with a trowel immediately after brushing the second coat. The total dry film thickness for both coats should be 2 mm.

## REMARKS

KingPlast DCM100 should not be applied to frozen substrates or if ambient temperature is below 5°C or expected to fall below 5°C.

## CLEANING

All tools shall be cleaned immediately after application using fresh water. Hardened materials must be cleaned mechanically.

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## PACKAGING

KingPlast DCM100 is available as 20 kg packs (5 kg polymer and 15 kg powder).

## COVERAGE

Approximately 13.5 m<sup>2</sup>/ 20 kg for 1 mm thickness.

## 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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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.