KingPlast ® C500

Machine applied exterior grade cementitious levelling plaster with improved impact resistance and high condensate resistance

DESCRIPTION

KingPlast C500 is a pre-mixed ready mixed spray applied cementitious plaster. KingPlast C500 is a blend of cement, sand, dry powders, aggregates and selected polymers which when mixed with water produces a thixotropic mortar suitable for plastering on vertical and overhead surfaces which can be applied using a spray plastering machine.

APPLICATIONS

Plastering of concrete and blocks surfaces internally and externally.

ADVANTAGES

- Improved impact resistance.
- High condensate resistance.
- Shrinkage controlled, polymer modified cementitious plaster.
- Easy to apply, one component, requires only addition of water.
- Can be applied by trowelling or spray plastering machine.
- Long open time and pot life allowing for easy application and surface finishing.
- Thixotropic properties allowing high build, for vertical and overhead applications.
- Suitable for internal and external application.

METHOD OF USE

Substrate Preparation

Substrate must be clean and free from oil, grease, dust and laitance.

KingPlast C500 is applied by plastering machine at a thickness of up to 25 mm as a single coat. Mix using a plastering machine and spray between segments. After spraying, smooth the surfaces using a straight edge.

Smooth the surfaces again by using a straight edge within half an hour of initial application, and before the surface hardens. KingPlast C500 may be applied manually if required.

TECHNICAL PROPERTIES

Appearance:	Free flowing powder
Colour:	White or grey
Mixing ratio:	7 - 8 ltr/bag
Fresh wet density:	1.7 ± 0.1 g/cm³
Working time:	40 - 60 min
Limiting single coat application thickness:	Up to 25 mm
Initial drying:	8 - 12 hr
Compressive strength: (wet cure) ASTM C109/109M-02	2 MPa @ 28 days
Minimum application temperature:	5°C

Priming

Primer is not normally necessary prior to the application of KingPlast C500, however, areas to be plastered should be soaked with clean water before applying the plaster.

Where increased bonding is required, or where plastering is to be applied on smooth fair faced surfaces. Two priming methods are recommended:

- Using a polymer modified resin based primer such as KingPlast C500 Contact Primer. KingPlast C500 should be applied after 24 hours after KingPlast C500 Contact Primer dries.
- Using a key coat like KingPlast C100 which will enhance dramatically the bond of plaster. The substrate must be soaked with water before applying the plaster.

For more information of the slurry coat, KINGKRETE Technical Department can be consulted or check the Technical Data Sheet for KingPlast C100.

CURING

KingPlast ® C500

As KingPlast C500 is cement based and it should be cured in a similar method to other cement based materials. Soak the applied surfaces with water 3 - 4 times a day after setting.

CLEANING

All tools should be cleaned immediately after use with fresh clean water.

PACKAGING

KingPlast C500 is available in 25 kg bags.

YIELD

Approximately 2 m²/25 kg bag @ 10 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 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 South America
www.kingkrete.com