KingPlast® PP75

Two coat machine applied interior grade lightweight cementitious levelling plaster with improved heat and sound insulation and mould resistance.

DESCRIPTION

KingPlast PP75 is a pre-mixed, cement based plaster with perlite filler which when applied to wall surfaces such as ceilings, gypsum walls, bricks, concrete, aerated concrete, etc. provides excellent acoustic properties and excellent heat and fire resistant factors.

KingPlast PP75 produces a strong durable finish, with good surface hardness and textured appearance.

APPLICATIONS

KingPlast PP75 is suitable for use on internal walls in commercial and residential buildings as well as hotels, hospitals and schools, and can be applied directly to any concrete or brick surfaces.

ADVANTAGES

- Easy to use, requires only addition of water.
- Lightweight, with excellent adhesion to most construction surfaces.
- Can be applied by spray or trowel.
- Provides for better heat and sound insulation than normal plasters.
- Produce a hard and durable finish.
- Dimensionally stable, does not shrink upon drying.
- Vapour permeable and breathable resulting in a healthier environment.
- Does not support bacterial, mould or fungal growth.
- Nonflammable.

METHOD OF USE

Substrate Preparation

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

Priming

Primer is not normally necessary prior to the application of KingPlast PP75, 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:

TECHNICAL PROPERTIES @ 25^{0}C:

Colour:	White powder
Fresh wet density:	1.2 ± 0.05 g/cm^3
Bulk density:	0.85 ± 0.05 g/cm^3
Mixing ratio:	12 ltr of water/20 kg bag
Open time:	40 - 60 min
Working time:	> 3 hr
Initial setting time:	1 - 2 hr
Final setting time:	24 hr
Minimum application thickness:	5 mm
Maximum application thickness:	12 mm/layer
Minimum application temperature:	5^{o}C
Thermal Conductivity*: ASTM C 177-13	0.14 ± 0.05 W/m.C^o

** Tested at an average temperature of 15^{o}C and a thickness of 30 mm.*

- Using a polymer modified resinbased primer such as KingPlast Contact Primer. KingPlast PP75 should be applied after 24 hours after KingPlast Contact Primer dries.
- Using a key coat like RC100 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 MN75.

Mixing

Adjust the water rate of the spray machine to obtain a wet but thixotropic consistency.

When mechanical mixing for use in manual applications, add 11.5 - 12.5 litres of water while mixing to a 20 kg bag of KingPlast PP75.

Ensure that all bag content is properly mixed before application. 2 - 3 minutes is the minimum mixing time. Then let it stand for 5 minutes, stir again and apply.

PLACING AND FINISHING

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KingPlast PP75 should be sprayed horizontally between the plaster lathes.
Spraying should be continuous for each sector. KingPlast PP75 left on the plaster lathes should be scraped off using a trowel, to keep the plaster lathes suitable for finishing the surface.

Surface finish is performed using an aluminum knife template moving upwards, and pressing the plaster lathes. Make sure all gaps on wall surfaces are filled.

After the material has initially hardened (about 2 hours), spray water on to the surface with a brush or a hose, then use foam rubber trowel moving in circular motion to float the surface. The interior edges and other parts of the wall should be smoothed using a plastering plane.

If a second layer is required, wait until the first layer hs reached final setting time.

Note: The nature of the surface does not change the form of application, the same method of application is used for all surfaces and for walls and ceilings.

CURING

As KingPlast PP75 is a cementitious based material, it should be cured in a similar manner to cement base materials. Soak the applied surfaces with water 2 - 3 times a day after setting.

PRECAUTIONS

- Do not mix with any other products or materials.
- It is not advisable to use the material if substrate or air temperatures are below 5^{0}C or above 35^{0}C.
- Dry and hot surfaces should be wetted before application of KingPlast PP75.
- Plaster machine and application tools should be cleaned before and after use.
- Avoid application in highly humid environments.
- Avoid application if there is a strong wind at the application site.
- For hand application, KingPlast PP75 should not be mixed by hand. It is important mixing time is maintained.
- After correct mixing has taken place, neither water nor plaster should be added to the mix. This will result in a non-homogeneous mix.

CLEANING

All tools and machinery should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

PACKAGING

KingPlast PP75 is available in 20 kg bags.

YIELD

Approximately 2.6 m^2/20 kg bag at a 10 mm thickness.

DISPOSAL

Can be disposed of at any authorized landfill site in accordance with local regulations.

For further information refer to the Material Safety Data Sheet.

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

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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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