

Proplast PP700

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



DESCRIPTION

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.

Proplast PP700 produces a strong durable finish, with good surface hardness and textured appearance.

APPLICATIONS

Proplast PP700 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.
- » Can be applied as a thermal insulation for steel columns.

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 Proplast PP700, however, areas to be plastered should be soaked with clean water before applying the plaster.

TECHNICAL PROPERTIES @ 25°C:

Colour:	White powder
Fresh wet density:	1.1 ± 0.1 g/ml
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:	2 - 3 hr
Final setting time:	24 hr
Minimum application thickness:	5 mm
Maximum application thickness:	12 mm/layer
Minimum application temperature:	5°C
Thermal Conductivity*: ASTM C 177-13	0.14 ± 0.05 W/m.C°

**Tested at an average temperature of 15°C and a thickness of 30 mm.*

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 Proplast Contact Primer. Proplast PP700 should be applied after 24 hours after Proplast Contact Primer dries.
- » Using a key coat like Proplast 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, DCP Technical Department can be consulted or check the Technical Data Sheet for Proplast RC100.

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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 Proplast PP700.

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

Proplast PP700 should be sprayed horizontally between the plaster lathes. Spraying should be continuous for each sector. Proplast PP700 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 has reached final setting time.

For application as a thermal insulation for steel columns, the first coat of Proplast PP700 can be applied followed by a steel mesh wrapped around the whole area of the column to hold the first coat in place and allow for the application of further coats.

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.

If the steel column is with a very smooth surface and sagging issues were faced during the application of the plaster, the following procedure should be followed:

- » The steel substrate should be primed with Strongcoat primer and broadcast with quartz sand to work as the bonding medium for Proplast PP700.
- » Any excess/loose quartz sand should be removed after the surface is completely dry. Quickmast 108 can then be applied as a bonding agent, it should be painted evenly across the whole surface and left until it becomes tacky before applying Proplast PP700.

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CURING

As Proplast PP700 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°C or above 35°C.
- » Dry and hot surfaces should be wetted before application of Proplast PP700.
- » 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, Proplast PP700 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

Proplast PP700 is available in 20 kg bags.

YIELD

Approximately 2.6 m²/20 kg bag at a 10 mm thickness.

STORAGE

Proplast PP700 has a shelf life of 6 months from date of manufacture if stored in a covered dry area.

If these conditions are exceeded, contact DCP Technical Department for advice.

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CAUTIONS

HEALTH AND SAFETY

Avoid contact with skin. Protective overall and footwear should be used, along with the safety goggles.

The area of work should be ventilated properly, and dust formation should be minimized or controlled.

Proplast PP700 may cause irritation to skin or eyes. In case of accidental contact with eyes, immediately flush with plenty of water to avoid any discomfort.

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.

FIRE

Proplast PP700 is nonflammable.



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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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