

Proplast CM105

One component, high strength pre-mixed cementitious plaster
(Formerly known as Aylaplast 105)



Description

Proplast CM105 is a polymer modified, ready to use cementitious plaster. Proplast CM105 is composed of a blend of cement, sand, limestone, dry powders aggregates, selected polymers and fibers which when mixed with water produces a thixotropic mortar suitable for plastering on vertical and overhead surfaces.

Applications

- ▲ Plastering of concrete and blocks surfaces internally and externally.
- ▲ Gives a smooth and textured finish depending on application thickness.
- ▲ Used as a dash slurry coat.

Advantages

- ▲ Shrinkage controlled polymer modified cementitious plaster.
- ▲ Easy to apply, single component, requires only addition of water.
- ▲ Extremely low permeability to water, providing excellent protection to steel reinforcements and host concrete.
- ▲ Thixotropic properties allowing extra high build, for use in vertical and overhead applications.
- ▲ Suitable for internal and external application.
- ▲ Available in wide range of colors.
- ▲ Can be applied either by trowelling or spray methods.

Standards

Proplast CM105 complies with ASTM C150, Type 1.

Method of Use

Substrate Preparation

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

Priming

Normally no primer is required for the application of Proplast CM105, 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 face surfaces. Two priming methods are recommended:

Technical Properties:

Color:	Variable
Fresh wet density:	1.7 ± 0.1 gm/ cm ³
Maximum aggregate size:	1.5 mm
Working time:	≈ 1 hr.
Minimum application temperature:	5°C
Bulk density:	1.45 ± 0.05
Fire index: EN998-1	Class A1
VOC:	< 0.1 gr/ ltr. Passes the lead requirements

- ▲ Using a polymer based primer such as Proprime CP110 and to apply the plaster while the primer is still tacky (20 - 40 minutes depending on ambient temperature).
- ▲ Using a dash slurry coat like Proplast RC100 which will enhance dramatically the bond of plaster with the smooth substrate soaking with water is needed before applying the plaster. For more information of the dash slurry coat, DCP Technical Department can be consulted or check the Technical Data Sheet for Proplast RC100.

Mixing

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

4.8 - 5.2 litres of clean water should be added to 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 until uniform consistency is obtained.

Placing and Finishing

The suitable thickness of application is between 2.5 - 20 mm. If higher thickness is required another layer should be applied after the first layer has initially set (3 - 6 hours) using wet on wet technique. Low thickness will result in textured finish, while higher thickness will result in a smoother finish.

Proplast CM105

Proplast CM105 is applied by trowel. The mixed mortar should be applied using firm pressure to fully compact the mortar and ensure good adhesion to the substrate.

Finishing and leveling should be carried out initially by wooden or plastic float. Final finishing should be carried out using a slightly water damped steel float.

Spraying application

Substrate must be clean and free from oil, grease, dust and laitance. Soaking/ wetting the surface is required immediately before the application of Proplast CM105.

The application thickness is between 2.5 - 20 mm in a single coat. After spraying, smoothen the surface using a straight edge tool.

Quantity of water is dependable on the final consistency required by spray equipment (flow of 350 litres/ hour is a suitable average to start with).

Curing

As Proplast CM105 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. For colored decorative finish, soaking with clean water must be done uniformly to all the applied area. Then it is recommended to use a water repellent material like Repelicone L. This procedure is important to prevent the efflorescence effect.

Cleaning

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

Packaging

Proplast CM105 is available in 25 kg bags.

Yield

Approximately 17 - 18 litres/ bag.

Storage

Proplast CM105 has a shelf life of 12months if stored at temperatures between 2°C and 50°C in original unopened bags.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and safety

Proplast CM105 may cause irritation to skin or eyes. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Material Safety Data sheet.

Fire

Proplast CM105 is non-flammable.

More from Don Construction Products

A wide range of construction chemicals products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Grouts and chemical fixings.
- ▲ Concrete repairs.
- ▲ Industrial floorings.
- ▲ Structural protection.
- ▲ Waterproofing.

Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

www.dcp-int.com

