

# Proplast CM100

Machine applied exterior grade cementitious levelling plaster with improved bond strength, high impact and condensate resistance (Formerly known as Aylaplast 100)



## Description

Proplast CM100 is a polymer modified, ready mixed cementitious plaster applied by hand or machine.

Proplast CM100 is composed of a blend of cement, sand, limestone, dry powder aggregates, selected polymers and fibres 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.

## Advantages

- ▲ Can be applied either by trowel or spray plastering machine.
- ▲ Shrinkage controlled polymer modified cementitious plaster.
- ▲ Improved bond strength.
- ▲ High impact resistance.
- ▲ High condensate resistance.
- ▲ Easy to apply, one component, requires only addition of water.
- ▲ Thixotropic properties allowing extra high build, for use in vertical and overhead applications.
- ▲ Suitable for internal and external applications.
- ▲ Suitable for wet and dry areas.

## Standards

Proplast CM100 complies with ASTM C150, Type 1, ASTM C897 and application standard ASTM C926.

## Method of Use

### Substrate Preparation

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

## Technical Properties:

Colour:	White or grey
Fresh wet density:	1.9 ± 0.1 g/cm <sup>3</sup>
Maximum aggregate size:	1 mm
Compressive strength: (wet cure) ASTM C109/109M-02	> 6 MPa @ 28 days
Flexural strength: ASTM C348	≥ 2.0 MPa @ 28 days
Bond strength on concrete: ASTM C1583	≥ 0.5 MPa @ 28 day
Water retention: ASTM C1506	≥ 90%
Air content: ASTM C185	1.60 ± 0.05%
Working life:	≈ 1 hr
Minimum application temperature:	5°C
Bulk density:	1.50 ± 0.05
Fire index: EN 998-1	Class A1
VOC:	< 10 g/ltr

## Priming

Primer is not normally necessary prior to the application of Proplast CM100, however, areas to be plastered should be soaked with clean water before applying the plaster.

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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 CM100 should be applied after 24 hours after Proplast Contact Primer.
- ▲ Using a key coat like Proplast RC100 or Proplast RC50 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 and Proplast RC50.

## 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 up to 25 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. Proplast CM100 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 dampened 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 CM100.
- ▲ The application thickness is up to 25 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 CM100 is a cement 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.

## Cleaning

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

## Packaging

Proplast CM100 is available in 25 and 50 kg bags.

## Yield

Approximately 15 - 16 litres/25 kg bag.

## Storage

Proplast CM100 has a shelf life of 12 months from date of manufacture 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.

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## Cautions

### Health and safety

Proplast CM100 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 CM100 is nonflammable.

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- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
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### **Note:**

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