

Proplast RC100

Exterior grade cementitious key coat plaster for all common types of substrates



Description

Proplast RC100 is a polymer modified, ready to use cement based key coat, which when mixed with water produces a bonding agent layer between new plaster and all common substrates.

Applications

Key bonding agent between plaster and smooth substrates including blocks (normal and lightweight), fair faced concrete and concrete with microsilica.

Advantages

- ▲ Very good bonding agent between cement based substrates and newly applied cement based plaster.
- ▲ Easy to apply, single component, requires only addition of water.
- ▲ Suitable for internal and external application.

Standards

Proplast RC100 complies with ASTM C150, ASTM C897 and application standard ASTM C926.

Method of Use

Substrate Preparation

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

The substrate must be soaked with clean water before the application of Proplast RC100.

Mixing

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

5 - 6 litres of clean water should be mixed with 25 kg bag of Proplast RC100 to achieve the needed uniform consistency (and 10 - 12 litres for the 50 kg bag).

Application

Apply the Proplast RC100 by hand, using a tyrolean box or a power spray gun.

Technical Properties:

Colour:	Grey
Bulk density:	$1.8 \pm 0.1 \text{ g/cm}^3$
Fresh wet density:	$2.0 \pm 0.1 \text{ g/cm}^3$
Maximum aggregate size:	3 mm
Open time:	20 - 30 min
Working time:	60 - 80 min @ 25° C 40 - 60 min @ 35° C
Initial set:	180 min
Final set:	24 hr
Compressive strength:	> 15 MPa @ 28 days
Bond strength: (smooth concrete)	> 1.5 MPa
VOC: ASTM D2369	< 10 g/ltr

Curing

As Proplast RC100 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.

Cleaning

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

Packaging

Proplast RC100 is available in 25 and 50 kg bags.

Yield

5 m²/25 kg bag for 3 mm thickness. However, the consumption is depending on the application method and the substrate finish.



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Storage

Proplast RC100 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.

Cautions

Health and safety

Proplast RC100 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 RC100 is nonflammable.

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- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.



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