

Proplast Microtopping

Cementitious decorative topping layer for internal and external applications on horizontal and vertical surfaces



DESCRIPTION

Proplast Microtopping is a two component; polymer modified decorative microtopping layer based on micro cement suitable for internal and external floor and wall applications and available in wide range of colours.

Proplast Microtopping is formulated to be applied over in 3 thin layers with a maximum total thickness of 2.5 mm providing a seamless coatings on horizontal and vertical surfaces. Proplast Microtopping can be mixed in different mixing ratios providing the required consistency.

APPLICATIONS

Proplast Microtopping can be applied both on horizontal and vertical surfaces, indoors and outdoors to provide an attractive architectural seamless finish in commercial and residential buildings such as:

- » Apartments and villas.
- » Offices.
- » Restaurants, shops and showrooms.
- » Hotels and malls.
- » Schools and universities.
- » Clinics and hospitals.

ADVANTAGES

- » Easy to mix and apply.
- » Seamless finish.
- » Excellent adhesion over different types of substrates.
- » Adjustable consistency with different mixing ratios.
- » Excellent abrasion and compression resistance.
- » High UV and water resistance.
- » Available in wide range of colours.
- » Environment friendly, low VOC.

METHOD OF USE

SURFACE PREPARATION

The substrate must be dry, clean, and free from oil, grease, dust, curing compound, laitance, organic growth or any other loose materials. This is best obtained by using high pressure water or light grit blasting. Substrate containing damaged or deteriorated concrete should be repaired before coating. Surface irregularities, unsound and weak layers should be removed by mechanical means such as grit blasting or diamond grinding.

PRIMING

No special primer is required, cementitious substrates should be soaked with clean water to reach a saturated surface dry condition. All excess water should be removed prior to applying Proplast Microtopping.



TECHNICAL PROPERTIES @ 25°C. (Liquid:Powder ratio of 1:2 by weight)

Colour:	Available in wide range of colors	
Mixed density:		
(Liquid:Powder) (1:2)	1.70 ± 0.10 g/ cm ³	
(1:1.5)	1.60 ± 0.10 g/ cm ³	
(1:1)	1.45 ± 0.10 g/ cm ³	
Working time:	30 min	
Bond Strength:	> 2.0 MPa	
ASTM D7234		
Taber abrasion:		
H-22 wheel,		
(1000 g, 1000 cycle)	9 gram	
ASTM D4060		
Minimum application temperature:	5°C	
VOC:	< 10 g/ltr (comply with LEED)	

MIXING

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

Add the liquid component of Proplast Microtopping to a clean container. The powder component is then added slowly to the liquid at the required mixing ratio while mixing continuously with low speed mixer/drill (400 - 600 rpm).

Mixing time should be continued for 3 minutes until a uniform consistency is obtained.





APPLICATION

Proplast Microtopping should be applied using a trowel or roller depending on the mixing ratio and consistency. Proplast Microtopping should be applied in 3 layers for the best decorative finish as per the following table:

Layer	Mixing Ratio (L:P)	Application method	Thickness
1 st	(1:1)	Applied by roller as a skim coat	0.5 mm
2 nd	(1:2)	Applied by trowel as intermediate layer	1 mm
3 rd	(1:1.5)	Applied by trowel as top layer	1 mm

Apply the first coat of mixed Proplast Microtopping at a ratio of 1:1 to the prepared substrate and spread it using a roller at a thickness of 0.5 mm and allow to cure for a minimum of 8 hours at normal conditions before applying the second layer.

The second coat of Proplast Microtopping mixed at a ratio of 1:2 is then applied using a trowel and allowed to cure for a minimum of 8 hours at normal conditions before applying the third layer of Proplast Microtopping mixed at a ratio of 1:1.5 and trowel to give the required surface effect. After approximately 8 - 10 hours, and when the surface is dry; ensure to smooth, sand and remove any build-up of material by sandpaper to achieve a smooth finish and thoroughly clean the sand from the surface.

SEALER

Though not mandatory, it is highly recommended to seal the micro topping surface against accidental staining from liquids, food stuffs, and other chemical agents. After the third layer of Proplast Microtopping is sanded and allowed to cure for a minimum of 24 hours at normal conditions a sealer coat of water repellent from DCP's Repelicone Range or a waterbased polyurethane sealer over the finished surface to provide the required protection against staining, and water absorption.

Consult DCP Technical Department for specific recommendations.

CLEANING

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

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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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PACKAGING

Proplast Microtopping is available in 15 kg packs (10 kg powder and 5 kg liquid), and 30 kg packs (20 kg powder and 10 kg liquid).

YIELD

Approximately 8.8 litres per 15 kg pack (1:2 mixing ratio).
Approximately 17.6 litres per 30 kg pack (1:2 mixing ratio).

STORAGE

Proplast Microtopping has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C in original unopened bags.

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

CAUTIONS

HEALTH AND SAFETY

Proplast Microtopping 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 Microtopping is nonflammable.

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

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.



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