

# Cemflow Exterior Topping

Polymer modified exterior screed



## DESCRIPTION

Cemflow Exterior Topping is a polymer modified cementitious topping, supplied as a pre-blended dry powder designed for application between 5 mm and 25 mm (in one application) to provide an exterior wearing surface.

Cemflow Exterior Topping is self-smoothing, dimensionally stable and fast drying, allowing vehicles to traffic the surface after only 48 hours at 20°C.

## APPLICATIONS

Cemflow Exterior Topping is designed to eliminate surface irregularities and smooth internal and external concrete surfaces exposed to industrial traffic, such as in warehouses, food processing plants, and industrial floors.

## ADVANTAGES

- › Single component, requires only addition of water.
- › Fast setting.
- › Dimensionally stable.
- › Easy and fast application.
- › Excellent adhesion.
- › Excellent abrasion resistance.
- › Can be pump applied up to 1000 m<sup>2</sup>/day, depending on manpower and equipment available.

## METHOD OF USE

### SURFACE PREPARATION

Concrete and sand / cement screeds must be sound, dry and fully cured (not subject to shrinkage) and any laitance or surface treatments must be removed by mechanical means such as grit blasting. The surface tensile strength of the substrate should be a minimum 1.5 N/mm<sup>2</sup>.

### PRIMING

It is not usually necessary to prime absorbent surfaces. However, to ensure satisfactory bonding, the prepared surface should be dampened down to minimise pinholing. Ensure that the surface is in a saturated surface dry condition i.e. no visible surface water, prior to application of Cemflow Exterior Topping.

## TECHNICAL PROPERTIES:

Working time:	15 min
Setting time:	90 min
Foot traffic:	24 hr @ 5°C 3 hr @ 20°C
Compressive strength: EN 12190	> 20 N/mm <sup>2</sup> @ 1 day > 30 N/mm <sup>2</sup> @ 7 days > 40 N/mm <sup>2</sup> @ 28 days
Flexural strength: BN 196-1	> 5 N/mm <sup>2</sup> @ 1 day > 8 N/mm <sup>2</sup> @ 7 days > 10 N/mm <sup>2</sup> @ 28 days
Abrasion resistance: (unsealed) EN 13892-4	AR0.5 (special)
Slip resistance: (unsealed) EN 13031-4	Dry 63 Wet 41
Chloride ion content: EN 1015-17	≤ 0.05%
Thermal compatibility, Part 1: EN 13687-1	Freeze-thaw ≥ 0.8 N/mm <sup>2</sup>
Adhesive bond: EN 1542	≥ 0.8 N/mm <sup>2</sup>
Capillary absorption: EN 13057	≤ 0.5 kg.m <sup>2</sup> .h <sup>0.5</sup>
Flow properties using 30 mm Ø x 50 mm flow ring EN 12706	100 to 115 mm
Consumption per mm thickness:	1.75 kg/m <sup>2</sup>
Application thickness:	5 to 25 mm

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## MIXING

### HAND APPLICATION

Use a power-whisk fitted in a heavy-duty slow speed electric drill. Mix in the proportion of 25 kg of powder to 4.0 - 4.5 litres of potable water. Pour the water into a suitably sized bucket and gradually add the powder while stirring, until a smooth, lump free consistency is achieved.

### PUMP APPLICATION

Mix the powder and water according to the method recommended by the pump manufacturers. In the case of pumps having a continuous water feed adjust the rate of water flow until the mix is a smooth fluid, uniform grey liquid with no surface separation, producing a flow of approximately 105 mm using a 35cc flow ring.

### APPLICATION

Pour or pump the mixed material onto the prepared surface and allow to attain a smooth finish. The use of a spiked roller will help eliminate entrapped air and smooth out flow lines. Apply at a thickness between of 5 mm to 25 mm in one pass only.

Maintaining a "wet edge" as you work will help to minimise natural colour variations that can occur between sections.

*Note: Extra water should not be added to the mix. If the material thickens before it is applied it should be discarded.*

For thicker applications it is advisable to use the lowest recommended water addition level, to reduce the potential of surface laitance. To lay Cemflow Exterior Topping to falls add sufficient water to reach a trowellable consistency.

### PATCH REPAIRS

Isolated areas up to 50 mm in depth can be repaired by adding 12.5 kg of clean, dry, 3 – 6 mm aggregate to a 25 kg bag of Cemflow Exterior Topping.

## SEALING

Cemflow Exterior Topping does not need to be sealed. However if extra protection is required, we recommend the use of Setseal 6.

## JOINTS

Ensure that all joints subject to movement, i.e. expansion and isolation joints, are carried up through the Cemflow Exterior Topping and filled with a suitable joint sealant.

## PRECAUTIONS

- » Do not place when the substrate temperature is below 5°C or when the ambient temperature is 10°C and falling.
- » Do not apply in temperatures over 25°C.
- » Protect from direct sun whilst applying and curing.
- » Do not apply in excessively windy conditions.
- » Do not apply in rain or when rain is forecast.
- » Protect from frost.
- » Do not exceed the maximum recommended water content and only use clean potable water.
- » Do not apply to Tarmacadam or asphalt surfaces.
- » Avoid cleaning with acidic cleaning solutions.

## CLEANING

Once mixing and laying are complete, tools should be cleaned immediately after use with cold water.

## PACKAGING

Cemflow Exterior Topping is available in 25 kg paper sacks.

## COVERAGE

A 25 kg bag using 4.0 litres of clean water will yield approx. 14.25 litres.

A 25 kg pack of Cemflow Exterior Topping will cover approximately 2.0 m<sup>2</sup> at 7mm thickness.



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## **STORAGE**

Protect from frost and store under dry warehouse conditions at a temperature between 10°C and 30°C.

## **SHELF LIFE**

Cemflow Exterior Topping has a shelf life of 9 months from date of manufacture if stored in unopened containers and under good conditions.

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

## **CAUTIONS**

## **HEALTH AND SAFETY**

Consult the appropriate Material Safety Data Sheet prior to using each product.



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- » Protective coatings.
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- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
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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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