

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.
- » Good abrasion resistance.
- » Can be pump applied up to 1000 m²/day, depending on manpower and equipment available.

STANDARDS

Cemflow Exterior Topping complies with EN 13813 Class CT-C40-F10-AR1.

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/mm².

TECHNICAL PROPERTIES:

Working time:	15 min
Setting time:	90 min
Foot traffic:	24 hr @ 5°C 3 hr @ 20°C
Compressive strength: EN 13892-2	> 20 N/mm ² @ 1 day > 30 N/mm ² @ 7 days > 40 N/mm ² @ 28 days
Flexural strength: EN 13892-2	> 5 N/mm ² @ 1 day > 8 N/mm ² @ 7 days > 10 N/mm ² @ 28 days
Bond strength: EN 13892-8	> 1.5 N/mm ²
Abrasion resistance: EN 13892-4	AR1
Slip resistance: EN 13036-4	Dry 63 Wet 41
Flow properties using 30 mm Ø x 50 mm flow ring EN 12706	120 to 150 mm
Taber abrasion resistance: ASTM D4060 (1000 g, 1000 cycles) H22 wheel	< 5 grams
Consumption per mm thickness:	1.75 kg (Cemflow Exterior Topping powder)/m ²
Application thickness:	5 to 25 mm

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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.

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 135 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 recommended to use the lowest level of water addition to minimise the risk of surface laitance. When laying Cemflow Exterior Topping to falls, add only enough water to achieve a workable, trowellable consistency.

For areas where a smooth finish is unsuitable, such as external locations or areas exposed to moisture, additional surface texture can be introduced to improve slip resistance.

This may be achieved by reducing the amount of mixing water to produce a stiffer mix. Once the surface has reached its initial set, a broom finish can then be applied to create a textured, slip-resistant surface.

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.



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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 approximately 14.25 litres.

A 25 kg pack of Cemflow Exterior Topping will cover approximately 2.0 m² at 7mm thickness.

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CAUTIONS

HEALTH AND SAFETY

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

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Note:

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