

# Cemflow Industrial

## Industrial grade floor topping



### DESCRIPTION

Cemflow Industrial is a self-smoothing, dimensionally stable, and fast drying industrial grade floor topping for upgrading and renovating new and existing internal floors.

Cemflow Industrial is supplied as a pre-blended dry powder designed for application between 5 mm to 50 mm (in one application) to provide a finished industrial floor.

Typically, Cemflow Industrial can be pumped at rates of up to 1,500 m<sup>2</sup> per day. When applied by hand—depending on available manpower and equipment—a coverage of around 600 m<sup>2</sup> can be achieved.

In areas where the cured material may come into direct contact with water, sealing is recommended. Strongcoat WD, a water-based epoxy coating, may be used, or—where a matt finish is desired—Cemflow Sealer.

### APPLICATIONS

Cemflow Industrial is suitable for use in a wide range of industrial environments such as warehouses, food processing plants etc. subjected to medium to heavy traffic.

### ADVANTAGES

- › Single component, requires only addition of water.
- › Fast setting.
- › Easy and fast application.
- › Excellent adhesion.
- › Excellent abrasion resistance.

### STANDARDS

Cemflow Industrial complies with EN 13813, Class CT-C40-F10-AR2.

### METHOD OF USE

#### SUBSTRATE 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>. For uneven surfaces, apply Cemflow Base/Renovation to a minimum 5 mm to provide a smooth level surface, prior to the application of Cemflow Industrial. (Please refer to relevant product Technical Data Sheets).

### TECHNICAL PROPERTIES:

Density:	2.10 ± 0.05 g/mL
Working time:	20 - 30 min @ 20°C
Setting time:	120 - 180 min @ 20°C
Foot traffic:	4 hr
Light traffic:	24 hr
Heavy traffic:	3 days
Compressive strength: BS EN 13892-2	> 20 N/mm <sup>2</sup> @ 1 day > 30 N/mm <sup>2</sup> @ 7 days > 45 N/mm <sup>2</sup> @ 28 days
Flexural strength: BS EN 13892-2	> 4 N/mm <sup>2</sup> @ 1 day > 7 N/mm <sup>2</sup> @ 7 days > 10 N/mm <sup>2</sup> @ 28 days
Flow properties using 30 mm Ø x 50 mm flow ring: BS EN 12706	120 - 140 mm
Consumption per mm thickness:	1.7 - 1.75 kg/m <sup>2</sup>
Application thickness:	5 - 50 mm

The concrete substrate must have a relative humidity below 75%; alternatively, Strongcoat DPM should be applied. During both application and curing of Cemflow Industrial, the floor temperature must be maintained above 10°C.

Prior to application onto impervious surfaces, the area should be thoroughly cleaned and lightly scarified. Any existing surfaces should be well bonded (> 1.5 N/mm<sup>2</sup>). The perimeter of the room and any columns should be isolated using a compressible strip.

For application over underfloor heating please contact DCP Technical Department for specific advice.

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## PRIMING

### TO CONCRETE AND CEMENT SCREEDS

For application onto sand/cement screeds, concrete and other porous substrates, first seal the prepared surface by applying one coat of Cemflow Primer diluted with 3 parts potable water and allow to dry.

Apply a second coat of primer at the same dilution and allow it to dry thoroughly. Depending on substrate porosity, a further coat may be required; a small trial area should be coated first to establish the correct priming regime. As an alternative, Strongcoat Primer may be used.

### PRIMING WITH STRONGCOAT PRIMER

Apply one coat of Strongcoat Primer and allow it to cure fully. Once cured, apply a second coat and, while still tacky, broadcast DCP aggregate at approximately 3 kg/m<sup>2</sup> until the aggregate completely covers the surface with no visible resin spots.

Allow the primed surface to dry overnight, then remove all excess aggregate before proceeding with the Cemflow Industrial application.

#### *To impervious surfaces:*

For impervious substrates—such as tiles, existing coatings, or over Strongcoat DPM—apply one coat of Strongcoat Primer and, while still tacky, fully blind with DCP coarse aggregate at approximately 3 kg/m<sup>2</sup> so that no resin spots remain. After broadcasting, allow the surface to dry overnight and brush or vacuum away the surplus aggregate before applying Cemflow Industrial.

Allow to dry fully overnight and remove excess aggregate before applying the Cemflow Industrial.

## 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 4.5 - 5.0 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. The material should be mixed for a minimum of 3 minutes. Leave to stand for 2 - 3 minutes and mix briefly for 1 minute before applying.

## 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 130 mm using a 35cc flow ring.

## APPLICATION

Pour or pump the mixed material onto the prepared surface and allow it to attain a smooth finish. The use of a spiked roller will help eliminate entrapped air and smooth out flow lines. Apply Cemflow Industrial at a thickness of 5 mm to 50 mm in one pass only.

For the application of any seal coats, please refer to the relevant Technical Data Sheets.

## REMARKS

- » Do not place when the substrate temperature is below 10°C or when the ambient temperature is 10°C and falling.
- » Protect from frost.
- » Do not exceed the maximum recommended water content and only use potable cold water.
- » This product is not recommended for external use or situations where water may come into direct contact with the cured material.
- » This product should not be applied to asphalt or bituminous surfaces.

## CLEANING

Wash tools with water immediately after use.

## PACKAGING

Cemflow Industrial is available in 25 kg bags.

## COVERAGE

A 25 kg pack of Cemflow Industrial will cover approximately 2.75 m<sup>2</sup> at 5 mm thickness.

## YIELD

A 25 kg bag using 4.5 litres of clean water will yield approximately 14.0 litres.

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## **STORAGE**

Cemflow Industrial has a shelf life of 6 months from date of manufacture if stored at temperatures between 10°C and 30°C in unopened bags and under dry warehouse conditions

Protect from frost.

If these conditions are exceeded, contact DCP Technical Department for advice.

## **CAUTIONS**

### **HEALTH AND SAFETY**

For further information, refer to the Material Safety Data Sheet.

### **FIRE**

Cemflow Industrial is nonflammable.



# Cemflow Industrial

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- » Sealants.
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- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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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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