Industrial grade floor topping



DESCRIPTION

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

Cemflow Topping is supplied as a pre-blended dry powder designed for application between 195 mils to 785 mils (5 mm to 20 mm) (in one application) to provide a finished industrial floor. Typically, Cemflow Topping can be pumped up to 16145 ft 2 (1500 m 2) per day. Coverage of 6455 ft 2 (600 m 2) can be achieved when hand applied, dependent upon manpower and equipment used.

APPLICATIONS

Cemflow Topping is suitable for use in a wide range of industrial environments such as warehouses, food processing plants etc. subjected to medium to heavy traffic. It is suitable for application onto a wide range of subfloor types, including sand and cement screeds, concrete, terrazzo, granolithic, epoxy and polyurethane resins and waterproof membranes.

ADVANTAGES

- » Single component, requires only addition of water.
- » Fast setting.
- » Easy and fast application.
- Excellent adhesion.
- » Excellent abrasion resistance
- » High coverage efficiency.
- » Low application thickness threshold.

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 of 215 psi (1.5 MPa). For uneven surfaces, apply Cemflow Base to a minimum 195 mils (5 mm) to provide a smooth level surface, prior to the application of Cemflow Topping.

TECHNICAL PROPERTIES:

Working time: $20 - 30 \text{ min } @ 68^{\circ}\text{F } (20^{\circ}\text{C})$

Setting time: 90 min @ 68°F (20°C)

Foot traffic: 3 hr Light traffic: 24 hr Heavy traffic: 3 days

Compressive strength:

EN 13892-2

@ 1 day > 2900 psi (20 MPa)@ 7 days > 4350 psi (30 MPa)@ 28 days > 5800 psi (40 MPa)

Flexural strength:

EN 13892-2

@ 1 day > 580 psi (4 MPa) @ 7 days > 1015 psi (7 MPa) @ 28 days > 1450 psi (10 MPa)

Abrasion resistance:

EN 13892-4 AR0.5

Slip resistance:

EN 13036-4

Dry > 60 Wet > 45

Flow properties using

1.2" (30 mm) Ø

x 2" (50 mm) 4.7 – 6 inches (120 – 150

flow ring:

EN 12706

Taber abrasion

resistance:

ASTM D4060 < 7 grams

(1000 g, 1000 cycles)

H22 wheel

Application thickness: 195 - 785 mils (5 to 20 mm)

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 it to dry.

Apply a second coat of primer diluted 3:1 by the same method and allow thoroughly to dry. Depending on the porosity of the substrate a further coat may be required.

To confirm if this is necessary a small application area should be undertaken to ascertain the correct priming requirements.

TO IMPERVIOUS SURFACES

For application onto impervious surfaces, such as tiles, coatings or onto Strongcoat DPM (please read relevant product technical data sheet), apply Strongcoat Primer and whilst it is still tacky fully blind with DCP Coarse Aggregate at approximately 0.6 lb/ft² (3 kg/m²), until the surface is covered and no resin spots remain. Allow to dry fully overnight and remove excess aggregate before applying the Cemflow Topping.

MIXING

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 5 inches (130 mm) using a 35cc flow ring.

HAND APPLICATION

Use a power-whisk fitted in a heavy-duty slow speed electric drill. Mix in the proportion of 50lb (22.7 kg) of powder to 1.05-1.2 US gal (4.0-4.5 liters) 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.

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 195 mils to 785 mils (5 mm to 20 mm) in one pass only. For the application of any seal coats, please refer to relevant Technical Data Sheets.

PRECAUTIONS

- Do not place when the substrate temperature is below 50°F (10°C) or when the ambient temperature is 50°F (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

50 lb (22.7 kg) paper sacks.

COVERAGE

A 50 lb (22.7 kg) pack using 1.1 US gal (4.25 liters) of clean water will yield approximately 3.6 US gal (13.5 liters).

A 50 lb (22.7 kg) pack of Cemflow Topping will cover approximately 29 ft 2 (2.7 m 2) at 195 mils (5 mm) thickness.

STORAGE

Protect from frost and store under dry warehouse conditions at a temperature between $50^{\circ}F$ and $86^{\circ}F$ ($10^{\circ}C$ and $30^{\circ}C$).

SHELF LIFE

6 months in unopened bags and stored under good conditions.

HEALTH AND SAFETY

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

WARRANTY

Unless expressly stated otherwise in the Sales Documents, the Limited Warranty shall expire on the expiry date listed on the Product's label or packaging. The full text of DCP's limited warranty is found in DCP's standard terms and conditions of sale (the "Terms"), which are available at DCP Website/USA – Terms & Conditions. DCP's limited warranty is in all cases subject to, and conditioned upon, the Terms.



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Don Construction Products Inc.

Lancaster, SC 2970, USA info.usa@dcp-int.com www.dcp-int.com

Note

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