CEMFLOW TOPPING

Industrial grade floor topping

TECHNICAL DATA SHEET PUBLISHED SEPTEMBER 2015

PRODUCT FEATURES

Cemflow Topping is designed as an industrial grade floor topping for upgrading and renovating new and existing internal floors.

Cemflow Topping is supplied as a pre-blended dry powder designed for application between 5mm to 15mm (in one application) to provide a finished industrial floor.

Cemflow Topping is self-smoothing, dimensionally stable, and fast drying. It is suitable for use in a wide range of industrial environments such as warehouses, food processing plants etc. subjected to medium to heavy traffic. Cemflow Topping is suitable for application on to a wide range of subfloor types, including; sand and cement screeds, concrete, terazzo, granolithic, epoxy and polyurethane resins and waterproof membranes.

Typically Cemflow Topping can be pumped up to 1500m² per day. Coverage of 600m² can be achieved when hand applied, dependent upon manpower and equipment used.

We would recommend that Cemflow Topping be sealed in areas where water may come into direct contact with the cured material. Cemflow Topping may be sealed with **Strongcoat WD** water based epoxy coating, or if a matt finish is required, apply a first coat of clear Strongcoat WD followed by a coat of **Strongcoat Matt Clear. Cemflow Sealer** can also be used to seal the product in a commercial environment. (Further information is available from our Technical Department or the Product Data Sheets)

MATERIALS SUPPLIED

25Kg paper sacks.

STORAGE

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

SHELF LIFE

6 months in unopened bags and stored under good conditions.

COVERAGE

A 25kg bag using 4.75 litres of clean water will yield approx. 15.0 litres.

A 25kg pack of Cemflow Topping will cover approximately 3.0m2 at 5mm thickness.

TECHNICAL INFORMATION

EN 13813 Designation		CT-C40-F10-AR0,5
Working Time	@ 20°C	20 – 30 minutes
Setting time	@ 20°C	90 minutes
Foot traffic Light traffic Heavy traffic		3 hours 24 hours 3 days
Compressive strength (N/mm²) (EN 13892-2)	1 day 7 days 28 days	 > 20.0 > 30.0 > 40.0
Flexural strength (N/ mm2) (EN 13892-2)	1 day 7 days 28 days	 > 4.0 > 7.0 > 10.0
Abrasion resistance (EN 13892-4)		AR0,5 (Special)
Slip resistance (EN 13036-4)	Dry Wet	73 42
BRE Screed Test		0.8 mm
Flow properties using 30mm ø x 50mm flow ring (EN 12706)		120 – 140mm
Consumption per mm thickness		1.69 kg/m²
Application thickness		5 – 15 mm

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Concrete and sand / cement screeds must be sound, dry and fully cured (not subject to shrinkage). Any laitance, contamination 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.

For uneven surfaces, apply **Cemflow Base** to a minimum 5mm to provide a smooth level surface, prior to the application of Cemflow Topping Pigmented. (Please refer to relevant product Technical Data Sheets).

The concrete substrate should be below 75% RH alternatively Strongcoat DPM should be applied. The temperature of the floor must be maintained above 10°C throughout the application and drying of the Cemflow Topping.

SURFACE PREPARATION CONT.

Prior to application on to impervious surfaces the area should be thorougly cleaned and lightly scarified. Any existing surfaces should be well bonded (>1.5Nmm^2).

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.

PRIMING

TO CONCRETE AND CEMENT SCREEDS

For application on to sand / cement screeds, concrete and other porous substrates, first seal the prepared surface by applying one diluted coat of Neoprene Primer, diluted one part Neoprene Primer with 4 parts potable water by soft broom or brush, and allow to thoroughly 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. As an alternative, **Strongcoat Primer** may be used.

PRIMING WITH STRONGCOAT PRIMER

Apply one coat Strongcoat Primer and allow to cure. Apply 2nd coat and whilst still tacky fully blind with DCP Coarse Aggregate at approximately 3kg/m^2 until the surface is covered and no resin spots remain. The rate of application is approximately 3kg/m^2. Allow to dry fully overnight and remove excess aggregate before applying the Cemflow Topping.

TO CURED CEMFLOW BASE

For application over Cemflow Base apply Neoprene Primer diluted 3 parts water to 1 part Neoprene Primer by brush or soft broom and allow to dry thoroughly. Apply a further application of Neoprene Primer diluted 3:1 with water and again allow to dry thoroughly.

TO IMPERVIOUS SURFACES

For application on to 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 3kg/m^2, 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 130mm using a 35cc flow ring.

MIXING - HAND APPLICATION

Use a power-whisk fitted in a heavy-duty slow speed electric drill. Mix in the proportion of 25kg 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.

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 5mm to 15mm in one pass only.

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

CLEANING

Wash tools with water immediately after use.

PRECAUTIONS

Do not place when the substrate temperature is below 10°C or when the ambient temperature is 10ºC 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 ashpalt or bituminous surfaces.

HEALTH AND SAFETY

Refer to the product Material Safety Data Sheets before using Cemflow Topping.

GENERAL GUIDANCE

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department.

Don Construction Products Ltd Churnetside Business Park, Station Road,
Cheddleton, Leek, Staffs, ST13 7RS, UK T: +44 (0) 1538 361799

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.