CEMFLOW LIGHT

Light duty floor topping

TECHNICAL DATA SHEET PUBLISHED SEPT 2015

PRODUCT FEATURES

Cemflow Light is designed as a light duty floor topping for upgrading and renovating new and existing internal floors.

Cemflow Light is supplied as a pre-blended dry powder designed for application between 3mm to 6mm or can be filled to 10mm (in one application) to provide a finished floor for foot traffic.

Cemflow Light is self-smoothing, dimensionally stable, and fast drying. It is suitable for use in a wide range of applications. It is also protein free so may be used in biologically sensitive areas.

Cemflow Topping Pigmented 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.

We would recommend that Cemflow Light be sealed in areas where water may come into direct contact with the cured material. Cemflow Light 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)

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 5 litres of clean water will yield approx. 14.4 litres.

A 25kg pack of Cemflow Light will cover approximately 4.8m² at 3mm thickness.

TECHNICAL INFORMATION

BS EN 13813 Class		CT-C25-F6-AR1
Working Time	@ 20°C	15 – 20 minutes
Setting time	@ 20°C	90 minutes
Foot traffic		3 hours
Compressive strength (N/mm²) (BS EN 13892-2)	1 day 7 days 28 days	> 6.0 > 15.0 > 30.0
Flexural strength (N/ mm²) (BS EN 13892-2)	1 day 7 days 28 days	> 2.0 > 4.0 > 5.0
Consumption per mm thickness		1.75 kg/m²
Application thickness	Unfilled Filled	3 – 6 mm 10mm
Slip resistance BS EN 13036-4		Dry 69 Wet 54
Abrasion resistance (BS EN 13892-4)		AR 1
BRE Screed Test		1.00 mm

APPLICATION INSTRUCTIONS

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. If applying over **Cemflow Base** an STR should be used to remove any laitance followed by vacuuming and priming with **Neoprene Primer**.

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 Light.

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 thouroughly 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/m² until the surface is covered and no resin spots remain. The rate of application is approximately 3kg/m². 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/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

STANDARD MIX

Use a power-whisk fitted in a heavy-duty slow speed electric drill. Mix in the proportion of 25kg of powder to 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. Mix for a minimum of 2 minutes.

FILLED MIX

Add 12.5 kg 3-6mm dry graded pea gravel to the prepared standard mix. It is advisable to reduce the level of water to prevent separation of the mix.

APPLICATION

HAND APPLICATION

Pour the mixed material onto the prepared surface and allow to attain a smooth finish. The use of a spiked roller will help to eliminate entrapped air and smooth out flow lines. Apply at a thickness between 3-6mm in one application. The product will remain workable for approximately 15-20 minutes at 20°C. Cemflow Light will accept foot traffic after approximately 3 hours and light traffic after approximately 24 hours at 20°C.

PUMP APPLICATION

Cemflow Light is suitable for pump application up to 6mm thickness. Please contact our Technical Department for more specific information.

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 Light.

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.

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Note:
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