

Cemflow Topping

Industrial grade floor topping



Description

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 5 - 15 mm (in one application) to provide a finished industrial floor.

Applications

Suitable for use in a wide range of industrial environments subjected to medium to heavy traffic such as:

- ▲ Warehouses.
- ▲ Food processing plants.

Advantages

- ▲ Self-smoothing.
- ▲ Dimensionally stable.
- ▲ Fast drying.
- ▲ Can be pumped to cover an area of 2000 m² per day. Alternatively a coverage of 600 m² per day can be achieved when hand applied, depending on manpower and equipment used.

Method of Use

Surface Preparation

Concrete surfaces must be sound, dry and fully cured (not subject to shrinkage). 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 1.5 N/mm². When applied over Cemflow Base, SHOT BLASTING should be used to remove any laitance followed by vacuuming and priming with Cemflow Primer. If an impervious coating, screed or floor covering is to be used 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.

Priming

For application over cement screeds, Cemflow Base, or porous substrates, seal the prepared surface by applying

Technical Properties:

Flow properties using 35cc flow ring: ISO554	Initial ≈ 120 mm After 10 min 90 mm
Workability:	15 min @20°C
Vicat setting time:	1.5 hr @20°C
Foot traffic:	10 hr @ 25°C
Light traffic:	24 hr @ 25°C
Heavy traffic:	3 days @ 25°C
*Compressive strength: BS6319, Part 2 : 1983	> 30 MPa @ 7 days > 40 MPa @ 28 days
Flexural strength: BS6319, Part 3 : 1990	> 7 MPa @ 7 days > 10 MPa @ 28 days
Shrinkage (μ/m): ASTM C490-00a	< 550 @ 28 days
Abrasion resistance: BS8204, Part 2 : 1999	Special class
Slip resistance: BS8204, Part 2 : 1999	
	Dry 60 Wet 42
BRE screed test: BS8204, Part 1 : 1999	1.6 mm
Abrasion testing: SS92 35 08	< 1 cm ³ after 7 days air cure < 2cm ³ after 7 days immersion in water
Application thickness:	5 – 15 mm
Bond strength to concrete:	> 1.5 MPa @ 28 days
*Note: dry cure.	

two coats of Cemflow Acrylic Primer diluted with 3 parts of potable water to one part primer and allow to dry. The primer must be allowed to dry before the application of Cemflow Topping. For application over all other surfaces including Surface Damp Proof Membranes (SDPM) and non-absorbent surfaces: Prime with undiluted Neoprene Primer to ensure that good adhesion is obtained.

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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 litre 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 160 mm using a 50 cc 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 - 15 mm in one pass only. The first coat of Strongcoat WD may be applied over the Cemflow Topping as soon as it may be trafficked. This is typically 3 hours after application.

Curing

Curing is not required in normal conditions, but in harsh climatic conditions like direct sunlight, flow of wind, elevated temperatures, etc; freshly hardened concrete surfaces should be cured with damp Hessian or to be covered with polyethylene sheets

Precautions

- ⬆ Don't place when the substrate temperature is below 10°C or when the ambient temperature is 10°C and falling.
- ⬆ Protect from frost.
- ⬆ Don't exceed the recommended water content and only use potable water.
- ⬆ This product is not recommended for external use or situations where water may come into direct contact with the cured material.
- ⬆ For hot climate conditions (temperature > 35°C), special procedures should be conducted.
- ⬆ The material should not be used on floors where rising damp is valid, unless a suitable primer is used.

Cleaning

Tools and equipment can be cleaned with water immediately after use.

Packaging

Cemflow Topping is available in 25 kg bags.
Cemflow Acrylic Primer is available in 5 and 25 litre pails.

Coverage

Cemflow Topping: 2.8 m² @ 5 mm thickness for 25 kg bag mixed with 4.25 litre of clean water.

Cemflow Acrylic Primer when diluted 3 parts potable water to one part primer:

- ⬆ 40 m²/5litre.
- ⬆ 200 m²/25 litre.

Storage

Store in a dry area out of frost at temperatures between 10°C and 30°C.

Shelf Life

Cemflow Topping has a shelf life of 9 months from date of manufacture if stored in proper conditions and un-opened packs.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

Cemflow Topping may cause irritation to skin or eyes.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advise if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

Cemflow Topping is nonflammable.



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- ▲ Waterproofing.
- ▲ 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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