

Cemflow LEVEL PRO

Rapid drying, pump applied, self-smoothing flooring compound



DESCRIPTION

Cemflow LEVEL PRO is a high quality, rapid drying, self-smoothing, dimensionally stable screed for upgrading and renovating new and existing residential and commercial floors. Cemflow LEVEL PRO is supplied as a pre-blended dry powder designed for application between 0.5 mm to 20 mm (in one application) and it can receive floor coverings after 24 hours. Cemflow LEVEL PRO is protein free, which makes it suitable for use in biologically sensitive areas.

APPLICATIONS

Cemflow LEVEL PRO is suitable for application on to a wide range of sub floor types, including; sand and cement screeds, concrete, terrazzo, granolithic, epoxy and polyurethane resins and waterproofing membranes.

ADVANTAGES

- › Single component, requires only addition of water.
- › Fast setting.
- › Easy and fast application.
- › Excellent adhesion.
- › Protein free, may be used in biologically sensitive areas.

STANDARDS

Cemflow LEVEL PRO complies with EN 13813, Class CT-C25-F6.

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/mm². If applying over Cemflow Renovation or Cemflow Base an STR should be used to remove any laitance followed by vacuuming and priming with Cemflow 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 LEVEL PRO.

Prior to application on to impervious surfaces the area should be thoroughly cleaned and lightly scarified. Any existing surfaces should be well bonded (> 1.5 N/mm²). The perimeter of the room and any columns should be isolated using a compressible strip.

TECHNICAL PROPERTIES:

Working time:	15 min @ 20°C
Setting time:	90 - 120 min @ 20°C
Foot traffic:	3 - 4 hr
Light traffic:	24 hr
Compressive strength: BS EN 13892-2	> 10 N/mm ² @ 1 day > 20 N/mm ² @ 7 days > 25 N/mm ² @ 28 days
Flexural strength: BS EN 13892-2	> 2 N/mm ² @ 1 day > 4 N/mm ² @ 7 days > 6 N/mm ² @ 28 days
Flow properties using 30 mm Ø x 50 mm flow ring: BS EN 12706	120 - 140 mm
Consumption per mm thickness:	1.75 kg/m ²
Application thickness:	0.5 - 20 mm

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

PRIMING

To concrete and cement screeds:

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

Priming with Strongcoat DPM:

Apply one coat Strongcoat Primer and allow to cure. Apply 2nd coat and whilst still tacky fully blind with DCP Coarse Aggregate at approximately 3 kg/m² until the surface is covered and no resin spots remain.

The rate of application is approximately 3 kg/m². Allow to dry fully overnight and remove excess aggregate before applying the Cemflow LEVEL PRO.

Don Construction Products Ltd.

Helions Bumpstead Road, Haverhill CB9
United Kingdom
info.uk@dcp-int.com; info@dcp-int.co.uk
www.dcp-int.com



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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 onto impervious surfaces, such as tiles, and coatings. Apply Strongcoat DPM and whilst it is still tacky fully blind with DCP Coarse Aggregate at approximately 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 LEVEL PRO.

MIXING

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 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 2 minutes.

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 eliminate entrapped air and smooth out flow lines. Apply at a thickness between 0.5 mm to 20 mm in one application. The product will remain workable for approximately 15 - 20 minutes at 20°C. Cemflow LEVEL PRO will accept foot traffic after approximately 3 – 4 hours and light traffic after approximately 24 hours at 20°C.

Pump application

Cemflow LEVEL PRO is suitable for pump application up to 20 mm thickness. Please contact our Technical Department for more specific information.

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.

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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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CLEANING

Wash tools with water immediately after use.

PACKAGING

Cemflow LEVEL PRO is available in 25 kg paper sacks.

COVERAGE

A 25 kg bag using 4.5 litres of clean water will yield approximately 16 litres.

A 25 kg pack of Cemflow LEVEL PRO will cover approximately 5.0 m² at 3 mm thickness.

STORAGE

Cemflow LEVEL PRO 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, DCP Technical Department should be contacted for advice.

CAUTIONS

HEALTH AND SAFETY

For further information refer to the Material Safety Data Sheet.

FIRE

Cemflow LEVEL PRO is nonflammable.

MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.