

Cemafill Flex

Highly flexible cementitious tile grout for wide joints applications high water repellency effect



Description

Cemafill Flex is a highly flexible, premixed blend of cement, lime, well graded aggregate and special additives that when mixed with water produces a distinguished tile grout typically designed for wide joint widths range from 3 to 15 mm.

The unique composition of Cemafill Flex makes it ideally used to fill the wide joints and provide a smooth and attractive finishing free of any notable cracks. It is also characterized by a very low water absorption rate and thus it represents an excellent solution for grouting in exterior and submerged areas.

Cemafill Flex is available in wide range of brilliant colours that provide a uniform and aesthetic joint appearance.

Applications

- ▲ Grouting all types of ceramic tiles and natural stone for joints between 3 to 15 mm.
- ▲ Excellent for bathrooms, kitchens and other wet areas.
- ▲ Excellent for submerged areas.
- ▲ Suitable for commercial and residential buildings.
- ▲ Non-sag, excellent for wall applications.
- ▲ Excellent for internal and external applications.

Advantages

- ▲ Specially designed for wide grouting.
- ▲ High abrasion resistance.
- ▲ Reduced water absorption properties, suitable for wet areas.
- ▲ Low shrinkage rate, free of cracks.
- ▲ Uniform colour, for aesthetic joint appearance.
- ▲ Easy to apply, non-sag with good workability.
- ▲ Available in wide range of brilliant colours.

Limitations

Do not use for:

- ▲ Joint widths exceeding 15 mm.
- ▲ Grouting tiles in industrial floors where high chemical resistance is required.
- ▲ Cases where a rapid utilization of surfaces is required.
- ▲ Filling expansion, contraction or construction joints in walls and floors. These joints should be filled with a suitable flexible sealant from the DCP Flexseal range.

Technical Properties @ 23±2 C. w/p = 0.19

Fresh wet density:	1.60 ± 0.10 g/cm ³
Working time:	70 - 90 min
Compressive strength:	
ISO 13007-4,4.1.4	≥ 15 MPa (standard conditions)
ISO 13007-4,4.1.5	≥ 15 MPa (after freeze-thaw cycles)
Flexural strength:	
ISO 13007-4,4.1.3	≥ 2.5 MPa (standard conditions)
ISO 13007-4,4.1.5	≥ 2.5 MPa (after freeze-thaw cycles)
Shrinkage:	
ISO13007-4,4.3	≤ 2.0 mm/m
Water absorption:	
ISO 13007-4,4.2	≤ 0.2 g @ 240 min
VOC:	< 10 g/ltr
ASTM D2369	(complies with LEED)

Standards

Cemafill Flex complies with the following standards:

- ▲ ISO 13007-3 and BS EN 13888 as an improved cementitious grout with additional characteristics of reduced water absorption and high abrasion resistance (CG2AW).

Method of Use

Substrate Preparation

Before grouting, ensure that the adhesive has completely dried and hardened. Adhesive should be left for 24 hours before applying the grout, unless rapid setting adhesive is used.

All tiles and joints must be clean and free from oil, grease or loose materials.

Remove the tile spacers and ensure that the grout joints are uniform and their widths do not exceed 15 mm to avoid slumping.



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Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

0.9 - 1.0 litres of clean fresh water for each 5 kg bag (water/powder ratio of 0.18 - 0.2 by weight) should be added to a clean container. The powder is then added slowly to the water while mixing continuously at low speed (400 - 600 rpm).

Mixing time should be continued for 3 minutes until a uniform consistency and free of lumps mixture is obtained.

Allow a slake time for 5 minutes, then remix for additional 1 minute without adding any more water.

Important: Adding too much water will weaken the joints, cause surface discoloration and promote the formation of cracks. Always follow the mentioned mixing ratio.

Application

- ▲ Using appropriate spatula or rubber float, fill with pressure the joints completely with Cemafill Flex.
- ▲ Immediately remove the excess grout by moving the spatula or the edge of the rubber float diagonally to the tiles.
- ▲ When the grout starts to set (usually 30 - 40 minutes at normal conditions), use a damped sponge in a circular motion to remove the excess grout and level the joints.
- ▲ After drying, clean the tiles surface using a dry cloth.

It is recommended to remove grout from the tile surfaces before full setting of the grout. Failure to do so may result in difficulty in removing any remains and makes it necessary to use a mechanical means in cleaning, which may scratch the tile surfaces.

Cleaning

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

Packaging

Cemafill Flex is available in 5 kg bags.

Yield

The approximate yield of the grout can be calculated as per the following equation:

$$\text{Yield (m}^2\text{/kg)} = \frac{6}{\text{WD} \left(0.02 + \frac{1}{L} + \frac{1}{H}\right)}$$

Where:

- L: Tile length (cm)
- H: Tile width (cm)
- D: Average joint depth (mm)
- W: Average joint width (mm)

Note: Grout yield subject to ±15% tolerance.

Storage

Cemafill Flex has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

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

Cautions

Health and Safety

As Cemafill Flex contains Portland cement, Cemafill Flex 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 advice if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

Cemafill Flex is nonflammable.

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- ▲ Grouts and anchors.
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- ▲ Tile adhesives and grouts.
- ▲ Building products.
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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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