

Cemafill M

High performance, non-sanded cementitious tile grout for joints up to 3 mm (Formerly known as Aylagrount M)



Description

Cemafill M is a non-sanded high performance tile grout specially designed for grouting narrow joints up to 3 mm in all types of tile and stone on walls and floors.

Cemafill M is a unique blend of cement, fine grained inert materials, and special additives that forms when mixed with water a smooth tile grout ideally suitable for filling narrow joints between tiles to provide a dense, hard, and durable tile joints with excellent abrasion resistance and reduced water absorption characteristics.

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

Applications

- ▲ Specially designed for fine grouting of joints up to 3 mm.
- ▲ Excellent performance in high traffic areas such as shopping centres, hospitals and universities.
- ▲ Superb performance in wet areas and submerged conditions such as swimming pools and fountains.
- ▲ Non-sag, suitable for wall applications.
- ▲ Excellent for internal and external applications.

Advantages

- ▲ Optimum abrasion resistance for higher durability.
- ▲ High water repellent properties, for optimum performance in submerged conditions.
- ▲ Improved hygienic features, anti-mould and stain resistance.
- ▲ Non-shrinkage, 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 exceed 3 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 = 0.34:

Fresh wet density:	1.8 ± 0.1 g/cm ³
Compressive strength:	> 15 MPa @ 28 days
ISO 13007-4,4.1.4	> 21 MPa @ 28 days
ANSI A118.6,4.5	
Flexural strength:	> 2.5 MPa @ 28 days
ISO 13007-4,4.1.3	> 2.8 MPa @ 7 days
ANSI A118.6,4.7	
Working time:	60 min
Shrinkage:	< 3 mm/m
ISO 13007-4,4.3	
Abrasion resistance:	< 1000 mm ³
ISO 13007-4,4.4	
Water absorption:	< 5 g @ 240 min
ISO 13007-4,4.2	
VOC:	< 10 g/ltr
ASTM D2369	(complies with LEED)

Standards

Cemafill M 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).
- ▲ ANSI A118.6 as a standard cementitious grout.

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 3 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.

1.65 - 1.75 litres of clean fresh water for each 5 kg bag (water/powder ratio of 0.33 - 0.35 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 M.
- ▲ 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 20 - 30 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 M 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 M 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 M contains Portland cement, Cemafill M 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 M is nonflammable.

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Note:

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