Cemafill GP

Cementitious ceramic tile grout with high abrasion/resistance for joints up to 6 mm (Formerly known as Aylagrout GP)

DESCRIPTION

Cemafill GP is a high performance and general purpose cementitious tile grout for interior and exterior applications with all types of ceramic tiles such as single glazed, double glazed and porcelain in dry or wet conditions for joint widths up to 6 mm.

The high abrasion resistant properties of Cemafill GP make it suitable for grouting floor and wall joints in residential and commercial buildings. Cemafill GP 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 stones up to 6 mm.
- Suitable for commercial and residential buildings.
- Suitable for bathrooms, kitchens and other wet areas.
- Non-sag, excellent for wall applications.
- Excellent for internal and external applications.

ADVANTAGES

- High abrasion resistance.
- Reduced water absorption properties, suitable for wet areas.
- Improved hygienic properties, anti-mould, anti-microbial and stain resistance.
- 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 6 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 = 0.28:	
Fresh wet density:	1.75 ± 0.1 g/cm^3
Working time:	70 - 90 min
Compressive strength: ISO 13007-4, 4.1.4	> 15 MPa @ 28 days
Flexural strength: ISO 13007-4, 4.1.3	> 2.5 MPa @ 28 days
Shrinkage: ISO 13007-4,4.3	< 3.0 mm/m
Abrasion resistance: ISO 13007-4,4.4	< 1000 mm^3
Water absorption: ISO 13007-4,4.2	< 5 g @ 240 min
VOC: ASTM D2369	< 10 g/ltr (comply with LEED)

STANDARDS

Cemafill GP 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.
- ANSI A118.7 as a polymer modified content grout for the requirements of Shrinkage, Flexural, Compressive and Tensile strength.

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 adhesives 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 width does not exceed 6 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.

1.4 - 1.6 litres of clean fresh water for each 5 kg bag (water/powder ratio of 0.28 - 0.32 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.*
- *In the case of manual hand mixing, a maximum of 1.6 litres of water for each 5 kg bag is recommended for ease of mixing.*

APPLICATION

- Using appropriate spatula or rubber float, fill with pressure the joints completely with Cemafill GP.
- 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 GP is available in 5 kg bags.

COVERAGE

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

$$\text{Coverage (kg/m}^2\text{)} = \left(\frac{A + B}{A \times B}\right) \times C \times D \times FWD$$

Where:

A: Tile length (mm)
B: Tile width (mm)
C: Joint depth* (mm)
D: Joint width (mm)
FWD: Fresh wet density**

** If depth is unknown, use tile thickness.*
***Value from Technical Properties table.*

Note: Grout coverage subject to ±15% tolerance.

STORAGE

Cemafill GP has a shelf life of 18 months from date of manufacture if stored at temperatures between 2°C and 50°C in original plastic bag.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

As Cemafill GP contains Portland cement, Cemafill GP 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 GP is nonflammable.

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

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Note:
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