

Cemafill 2CS

Two component, high performance cementitious tile grout with high abrasion resistance characteristics for joint widths up to 8 mm (Formerly known as AylagROUT 2CS)



Description

Cemafill 2CS is a two component cementitious tile grout consists of blend of cement, well graded aggregate and special additives that when mixed with synthetic latex admixture (i.e. rubber emulsion) forms a high performance tile grout for all types of ceramic tiles and natural stone for joint widths up to 8 mm.

The high mechanical strength properties of Cemafill 2CS make it suitable for grouting floors and walls in high traffic areas such as shopping centres and hospitals, and the reduced water absorption feature makes it ideal to be used in permanently wet areas such as bathrooms and kitchens.

Cemafill 2CS 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 up to 8 mm joints.
- ▲ Ideally suitable for grouting high traffic areas such as shopping centres, hospitals and universities.
- ▲ Suitable for bathrooms, kitchens and other wet areas.
- ▲ Non-sag, excellent for wall applications.
- ▲ Excellent for internal and external applications.

Advantages

- ▲ Optimum abrasion resistance for higher durability.
- ▲ Reduced water absorption properties, suitable for wet areas.
- ▲ Improved hygienic properties, anti-mould 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 8 mm.
- ▲ Grouting tiles in industrial floors where high chemical resistance is required.
- ▲ Cases where a rapid utilization of surfaces is required.

Technical Properties @ 23 ± 2°C:

Fresh wet density:	1.8 ± 0.1 g/cm ³
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
Working time:	70 min
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
Compressive strength: ANSI A118.6, 4.5	≥ 24 MPa @ 28 days
Tensile strength: ANSI A118.6, 4.6	≥ 2.2 MPa @ 7 days
Flexural strength: ANSI A118.6, 4.7	≥ 2.5 MPa @ 7 days
VOC: ASTM D2369	< 10 g/ltr (complies with LEED)

- ▲ 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.

Standards

Cemafill 2CS 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 sanded cement grout.

Method of Use

Substrate Preparation

Before grouting, ensure that the adhesive has completely dried and hardened.



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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 8 mm to avoid slumping.

Mixing

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

The liquid part of Cemafill 2CS should be added to a clean container. The powder is then added slowly to the liquid 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.

Application

- ▲ Using appropriate spatula or rubber float, fill with pressure the joints completely with Cemafill 2CS.
- ▲ 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 dampened 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 2CS is available in 20 kg packs (15.15 kg powder and 4.85 kg liquid).

Yield

The approximate yield of the powder part of Cemafill 2CS can be calculated as per the following equation:

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

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 2CS has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C.

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

Cautions

Health and Safety

As Cemafill 2CS contains Portland cement, Cemafill 2CS 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 2CS is nonflammable.

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