

Cemafill WJ

Non-shrink cementitious grout suitable for filling wide joints between pavers and tiles up to 15 mm width



DESCRIPTION

Cemafill WJ is a non-shrink, chloride-free cementitious grout specially designed to fill the joints and gaps between tiles and pavers of 3 mm to 15 mm width and up to 50 mm depth.

Cemafill WJ consists of cement, selected well graded, non-reactive aggregates, and special additives. It is designed to give high flow properties, shrinkage compensation, and high compressive strength.

APPLICATIONS

- » Filling the gaps and wide joints between precast concrete pavers and tiles.

ADVANTAGES

- » Specially designed for filling wide joints up to 15 mm.
- » Shrinkage controlled grout, reduces the risk of cracking due to shrinkage and ensure full contact with the pavers.
- » Easy to apply, single component, requires only addition of water.
- » Uniform colour, for aesthetic joint appearance.
- » Cost effective.
- » 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. These joints should be filled with a suitable flexible sealant from the DCP Flexseal range.

METHOD OF USE

JOINT SURFACE 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/pavers and joints must be clean and free from oil, grease or loose materials. The width of the joint must be at least 3 mm and do not exceed 15 mm to avoid slumping.

TECHNICAL PROPERTIES @ 25°C. W/P =0.21

| | |
|-----------------------|-----------------------------|
| Colour: | Variable |
| Fresh wet density: | 2.1 ± 0.1 g/cm ³ |
| Working time: | 70 - 90 min |
| Compressive strength: | ≥ 20 MPa @ 7 days |
| ASTM C109/109M-02 | ≥ 35 MPa @ 28 days |
| Bleeding: | Nil |
| VOC: | < 10 g/ltr |
| ASTM D2369 | (comply with LEED) |

Compressive strength should be kept under restraint for the first 24 hours.

MIXING

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

5.0 - 5.5 litres of clean fresh water for each 25 kg bag (water/powder ratio of 0.20 - 0.22 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.

PLACING AND FINISHING

Pour the mixed grout over the tiles and into the prepared joints, immediately, spread the grout using a squeegee over the surface while ensuring the joints are being filled with the grout and level the joints.

Immediately, lightly dampen the tiles surface with water to remove the excess grout by moving the squeegee over the tiles. After drying, clean the ties surface using a dry cloth.

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

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.





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CURING

As Cemafill WJ is a cementitious material, it should be cured in a similar method to concrete. Curing can be conducted by using Setseal 22 or by wet hessian sheets covered with polyethylene sheets.

Notes:

- » At low temperatures (below 8°C), warm water is recommended to be used.
- » At high temperatures (35°C and above), cold water (less than 20°C) must be used for mixing.

CLEANING

All tools should be cleaned immediately after finishing by clean water. Hardened materials can be cleaned mechanically.

PACKAGING

Cemafill WJ is available in 25 kg bags.

YIELD

Approximately 14 – 14.5 litre per 25 kg bag.

STORAGE

Cemafill WJ has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C in original unopened bags.

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

CAUTIONS

HEALTH AND SAFETY

Cemafill WJ 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 WJ is nonflammable.

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10-0052-QA-A-2024