

# CIKOtile Grout 2k



Two components, improved cementitious and liquid latex/polymer modified tile grout

## Description

CIKOtile Grout 2K is two components cement based material modified with synthetic liquid Latex polymer to form a high-performance tile grout suitable for both horizontal and vertical applications. CIKOtile Grout 2K is offered in two variants: an un-sanded version designed for grouting tile joints with a width of 4mm or narrower, and a sanded version suitable for grouting tile joints between more than 4mm and up to 15mm in width.

CIKOtile Grout 2K is a factory blended product made of powder part consisting of cement, graded aggregates/fine filler, water retention agent, chemical additives, pigments and a second liquid component as adhesion enhancing polymer that requires proper mixing at site for usage.

## Advantages & Benefits

- Two components system, Easy to mix and apply.
- Suitable for indoor and outdoor application.
- Suitable for fully immersed and moist conditions.
- Available in wide range of colours.
- Provides good workability and pot life.
- High abrasion and water resistance
- Non-sagging
- Excellent bond strength to most types of tiles.

## Application Areas & Uses

CIKOtile Grout 2K is a high-quality improved performance sanded and un-sanded tile grout used for filling joints between tiles. It is compatible with most of the tiles such as ceramic, porcelain, marble, granite, glazed tile, precast pavers and natural stones installed in:

- Corridors, walkways, balconies, roofs, bedrooms, living rooms, offices, showrooms, bathrooms, kitchens, swimming pools and surroundings
- Commercial and public utility buildings.
- Areas subjected to extreme variation in temperature, moisture and relative humidity.
- All wet areas
- Food packaging areas.
- All wet/damp areas.
- Trafficable areas
- Outdoor paved patios areas

## Applicable standards

CIKOtile Grout 2K complies with minimum performance requirements of:

- BS EN13888 & ISO 13007-3 Code: CG2-WA,
- ANSI A118.7 (Sanded & Un-Sanded Grout)

## Physical properties

Form	Part A: Powder Part B: Liquid
Colour	Standard colours
Fresh Density	2.0±0.1 g/cm <sup>3</sup>
Working time	25-30 minutes @ 25° C
	15-20 minutes @ 35° C
VOC (USEPA-24)	<20g/L
Abrasion Resistance EN ISO 10545 (unsanded)	620 mm <sup>3</sup>
Compressive Strength 28 days ASTM C109 (sanded)	>25 Mpa @ 28 days
Compressive Strength BS EN 12808 / ISO 13007 / BS EN 196 (unsanded)	>15 MPa @ 28 days
Flexural Strength ASTM C580 (sanded)	>7 Mpa @ 10 days
Flexural Strength BS EN 12808 / ISO13007 / BS EN 196 (unsanded)	>6 Mpa @ 28 days
Linear Shrinkage ASTM C531 (unsanded)	0.084% @ 7 days
Water Absorption ANSI A118.7-N.3.4 (sanded)	Max. 5% @ 50% relative humidity to immersion Max. 7% @ 50% dry to immersion

## Coverage / Yield

CIKOTile Grout 2K coverage depends on tile's dimensions and width of joint.

The theoretical Coverage in m<sup>2</sup>/kg of part A:

$$= 6 \div \{W \cdot D \cdot (0.02 + (1/L) + (1/H))\}$$

Where:

L = length of tile (cm)

H = Width of tile (cm)

W = Average width of joint (mm)

D = Average Depth of Joint (mm)

Note: Grout coverage is subjected to ±15% tolerance. Refer to packaging section.

## Application instructions

### Tile joint preparation

The tile joints must be cleaned to remove un-bonded and excess tile adhesive used for fixing tiles using scrapper, brush or any suitable tool. Make sure the adhesive is aged at least 24 hours. All contaminations, dirt, paint and loose material must be removed. Use an air blower to ensure no deposits in the joint then clean it with water just before the application of CIKOTile Grout 2K.

### Mixing

It is recommended to use a heavy-duty adjustable speed drill-paddle assembly for mixing. The Liquid part [part-B] should be poured in a clean container of minimum capacity 20L. The powder [part-A] is then dispensed gradually whilst mixing. Mix at high speed for at least 3 minutes until a uniform, homogenous and lumps free mixture is achieved.

Allow the material to rest for 1 to 2 minutes then remix for additional 1 min prior to usage.

### Application method

Fill the tile joints with the mixed grout using spatula, scrapper or rubber float. Immediately remove the excess of grout by moving the spatula in a diagonal direction to the tiles. When the grout starts to set, usually it takes 20 to 30 minutes at normal conditions, Use a damped sponge to remove excess of grout and level the joint by moving gently in a circular motion. Grout stains on the tiles must be cleaned using wet cloth followed by dry cloth.

### Legal Notice and Warranty

CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third-party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

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All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.

## Shelf life

CIKOTile Grout 2K has a shelf life of 12 months when stored in its unopened original packaging as per CIKO's recommendations.

## Storage

CIKOTile Grout 2K should be stored under enclosed shaded areas at temperatures between 5°C and 30°C.

## Packaging

CIKOTile Grout 2K is available in 12 kg Kit (A+B).

## Health & safety

Use light mask to avoid inhalation of dust. Powders when wet or moist can cause burns to skin and eyes which should be protected during use. If comes in contact with skin/eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

## Technical Support

*For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off-site services to end users, specifier and contractors.*

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- Concrete admixtures and additives
- Waterproofing and damp-proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries