

CIKOtile Grout 2K

Smart Chemical Solutions



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 available and supplied in two variants; un-sanded for grouting tile joints of width 4mm and narrower and sanded for grouting tile joints of width ranging from 4mm up to 15 mm.

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.

Properties

- 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.

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)

Application area

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

Physical properties

Form	Part A: Powder Part B: Liquid
Colour	Standard colours
Fresh Density	2.0±0.1 g/cm ³
Working time	25-30 minutes @ 25 ^o C 15-20 minutes @ 35 ^o C
VOC (USEPA-24)	<20g/L
Compressive Strength 28 days ASTM C109	≥25 Mpa @ 28 days
Flexural Strength ASTM C580	≥7 Mpa @ 10 days
Linear Shrinkage ASTM C531	Max. 0.1% @ 1 day Max. 0.2% @ 7 days
Water Absorption ANSI A118.7- N.3.4	Max. 5% @ 50% relative humidity to immersion Max. 7% @ 50% dry to immersion

Coverage

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

The theoretical Coverage in m²/kg of part A:

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

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 unbonded 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 2 K.

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.

Packaging

CIKOtile Grout 2K (Sanded) is available as below:

- 12 kg Kit consisting of 10 Kg [part-A] and 2 kg [part-B]
- 24 kg kit consisting of 20 kg [part-A] and 4 kg [part-B]

CIKOtile Grout 2K (Un-Sanded) is available as below:

- 13 kg Kit consisting of 10 Kg [part-A] and 3 kg [part-B]

Storage

CIKOtile Grout 2K should be stored under enclosed shaded areas at temperatures between 5°C and 35°C.

Shelf life

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

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.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- 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

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Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control