

CIKOtile Grout SP



Un-sanded polymer modified cement based tile grout

Description

CIKOtile Grout SP is a high quality dried polymer modified cement based factory pre-mixed tile grout suitable for filling tiles gaps in both horizontal and vertical applications having width of 4 mm and narrower. It is available in wide range of colours to closely match the tile colours.

CIKOtile Grout SP is a factory blended powder consisting of cement as a binder, adhesion enhancing polymers, pigments, antifungal agent and other special chemical additives that only requires addition of water and proper mixing at site for usage.

Properties & Advantages

- Single component system, easy to mix and use.
- Suitable for fully immersed and high moist conditions.
- Available in wide range of colours.
- Provides good workability and pot life
- Excellent bond strength to most types of tiles.
- High resistance to fungal growth
- Suitable for both internal and external applications.
- Low shrinkage
- High abrasion resistant
- low water absorption allowing resistance to freeze-thaw cycles
- Economical
- heat resistant withstanding outdoor conditions

Applicable standards

- CIKOtile Grout SP complies and exceeds the minimum performance requirement:
- ANSI A118.7 (Un-Sanded Grout)
- BS EN 13888 & ISO13007-3 code CG2-WA
- Qatar Construction Specifications QCS.

Physical properties

Form	Powder
Colour	As per CIKOtile Grout physical colour chart
W/P	0.25-0.3
VOC (USEPA-24)	<0.01g/g
Working time	30-35 minutes (25°C) 20-25 minutes (35°C)
Compressive Strength EN12808-3/ ISO 13007-4	≥24 N/mm ² (28 days)
Compressive Strength ASTM C109	≥27 N/mm ² (28 days)
Flexural Strength ASTM C580	≥7 N/mm ² (28 days)
Flexural Strength EN 12808-3/ ISO 13007-4	≥5.5 N/mm ² (28 days)
Water Absorption EN12808-5/ ISO 13007-4	<2g (30 min) <4g (240min)
Shrinkage EN12808-4/ ISO 13007-4	<1.5mm/m
Abrasion Resistance EN 12808-2/ ISO 13007-4	≤700mm ³
Linear Shrinkage EN 12808-2/ ISO 13007-4	≤0.1% (1 day) <0.2% (7 days)
Water Absorption ANSI A118.7-N.3.4	<5% (50% relative humidity to immersion) <7% (50% dry to immersion)

*All Tests are conducted at W/P=0.25

Application Area & Uses

CIKOtile Grout SP is a high quality improved performance 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 and natural stones installed in:

- Corridors, walkways, balconies, roofs, bedrooms, living rooms, offices, showrooms, bathrooms, kitchens, swimming pools and surroundings
- Wet Areas subjected to variation in temperature, moisture and relative humidity.

Coverage

CIKOTile Grout SP Coverage depends on the tile's dimensions and the width of joint. Theoretical Coverage in Kg/m² is equal to:

$$= \frac{(L + B) \times W \times D \times 1.8}{(L \times B)}$$

Where:

L= length of tile (mm)

B= breadth of tile (mm)

W= width of joint (mm)

D= thickness of the tile (mm)

Note: This coverage is theoretical. On site application may depend on many factors and onsite wastage.

Contact CIKO technical services department for further assistance.

Application instructions

Tile joints 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. 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 application of CIKOTile grout SP.

Mixing

Pour 5 L up 6 L of potable water in a clean container of minimum capacity 20 L, dispense the 20 kg powder gradually while mixing using heavy duty adjustable speed drill-paddle mixer assembly. Mix at least 3 to 4 minutes at high speed so that the mixed material attains a thick, trowel-able and lump free consistency.

The amount of water should be minimal to attain better properties of CIKOTile grout SP.

Note: In hot weather application, use chilled water to extend the workability and pot life of the mixed material.

Application method

Fill the properly mixed material in the clean tile joints using scrapper, steel trowel or rubber float. Remove excess of material from tile's surface. Allow the grout to reach the initial setting time, and then finish the applied grout using wet cloth/sponge. Grout stains in the tiles must be cleaned using wet sponge or cloth.

Packaging

CIKOTile Grout SP is available in 10kg and 20kg moisture resistant bags.

Storage

CIKOTile Grout SP should be stored under enclosed shaded areas at temperatures between 5°C and 45°C.

Shelf life

CIKOTile Grout SP 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, specifiers 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

TDS/TAG21 Rev:3 Issue:C

Note: The information presented herein is 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