

CWC® Smart TILOFIL 1C

Superior performance colored cementitious Tile Joint Filler

Description:

CWC® Smart TiloFill 1C Colour Grout Super is a cementitious colored floor and wall tile grout for use in joints from 1-6 mm in width. Additives contained in the powder provide protection against water and contaminants while maintaining a stable colour, abrasion resistant and durable finish. Available in many colours.







Typical Properties:

Specific gravity	1.9 to 2.0 <i>g/cc</i>
Working time at 20°C	90 <i>minutes</i>
Working time at 35°C	30 <i>minutes</i>
Compressive strength (ASTM C109)	10 N/mm ² (28 days, +30 °C)
Tensile strength (BS 6319 -7)	3 N/mm ² @ 28 days
Mixing ratio	Water : Powder = 0.31-0.35 310-350 <i>ml</i> of water for 1 kg pack of CWC®Smart TiloFil 1C Colour Grout Super










Note: The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, depending on actual site conditions

Uses:

Grouting the following tile types:

-  Ceramic tiles
-  Earthenware tiles
-  Vitrified and fully vitrified tiles
-  Porcelain tiles
-  Glass mosaic
-  Marble and other natural stone tiles

Advantage:

-  Floor and wall application
-  Abrasion resistant
-  High degree of hardness
-  UV resistant
-  Frost proof
-  Easy to clean
-  Easy to use, only water to be added
-  Interior or exterior use
-  Many colours are available

Chemical resistance:

Excellent resistance to most aqueous systems including sewage, urine, salt water, dilute acids, battery acids, alkalis, oil and fats, etc.

Coverage:

Theoretical consumption (*kg/m²*) can be also calculated with the following formula:

$$= \frac{(L+W) \times \text{thickness of tile} \times \text{width of the joint} \times \text{density of the grout}}{L \times W}$$

A = Tile width (*mm*)

B = Tile height (*mm*)

C = Tile length (*cm*)

D = Tile width (*cm*)

W = Wet density (*kg/L*)

Size of the Tile (mm x mm)	Tile Thickness (mm)	Consumption for 2mm joint width (Kg/m ²)
100 x 100	6	0.47
125 x 250	8	0.37
200 x 200	8	0.31
200 x 200	12	0.47
200 x 200	14	0.55
200 x 250	8	0.28
200 x 300	8	0.26
250 x 300	8	0.23
300 x 300	8	0.20
330 x 600	8	0.15
330 x 600	10	0.18
400 x 400	10	0.20
450 x 450	10	0.17
600 x 600	10	0.13
600 x 1200	11	0.11

Note : Add 5 to 10% wastage for consumption calculation.

Application procedure:

EQUIPMENT

Mixing equipment Low speed electric single or double spiral paddle mixer (< 500 rpm)

Application equipment

- Grout spreader
- Squeegee
- Grouting float / trowel
- Sponge
- Soft cloth
- Grout finishing tool

SUBSTRATE QUALITY

- Check joints are dry, clean, and clear of excess adhesive, contaminants and tile joint spacers.
- Avoid any ponding / standing water on the surface.
- Surface must not be damp to touch.

SUBSTRATE PREPARATION

- Remove any obstructions from joint before grout application.
- For applications in hot climates / environments, or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to product application.

Mixing

CWC® Smart TiloFill 1C grout should be mixed with clear potable water with a water powder ratio of 0.3. A slow speed drill fitted with a mixing paddle is recommended for mixing. Add powder to water and mix until a uniform, lump-free consistency is achieved. Do not reconstitute the mixed grout by adding more water as this will affect the properties of the grout.

Application

- Apply to the tile joints with squeegee, spatula or putty blade. After application flush the surface of tile using a hard rubber float, working diagonally across the grout joints to fill and compact the joints.
- Work in small areas and remove excess grout from the tile surface as much as possible from the same rubber float. Do not exceed the working time of the grout.
- Allow about 15 minutes for the grout to set. After initial set Using a damp sponge, clean the tile/stone surface diagonally to the joint lines.
- Finally wash down with clean water and sponge to remove any dried grout film from the tile/stone surface.
- Once the grout has sufficiently set within the joints, polish the tile/stone surface with a clean cloth. Alternatively give a final wash down with clean water using a dampened sponge





Concrete Works
Construction Chemicals
Private Limited

Note:

1. Care should be taken to avoid staining tile/stone during grouting. This is especially applicable when grouting unglazed floor tiles/stone, quarry textured surface, etc. Check the potential risk of staining by applying the grout to a few tile/stone in a small trial area.
2. If certain dark shades are used, initially grout colour may bleach, but after 2 - 3 times of water wash the colour bleaching will stop.
3. Where chemical resistance, hygiene and sterile are important, use Smart EPO Grout.

Packaging:

CWC®SMART SMART TILOFIL 1C available in 1, 5 & 10kg pack.

CWC® SMART TILOFIL 1C is available in selective shades.

Please speak to CWC representatives about colour shade matching during the site visit.

Storage and Shelf life All:

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is 12 months when stored as above.

Safety precautions:

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin, and foodstuffs (which can also be tainted with vapor until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals.

Disclaimer:

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives, or distributors, as the conditions of use and the competence of any labor involved in the application are beyond our control.

Concrete Works Construction Chemicals Private Limited (CIN: U74999PN2021PTC199740)

Corp. Office: Office No. 70, Mahavir Center, Fourth Floor, Sector 17, Vashi, Navi Mumbai 400703.

Reg. Office: 1471 D.B. House, Office No. F-4, 4th Floor, Madhav Nagar Road-EWSD Sangli, 416416

Regional Offices

MUMBAI:

E-401, Tower-2, Plot No. R1, Sector - 40, Seawoods, Darave, Navi Mumbai-400706, Maharashtra, INDIA.

CHENNAI: Plot No.494/ 1A, 2A. Koladi Road, Thiruverkadu Main Road, Ambattur, Chennai - 600058 Tamil Nadu, INDIA

