



CWC® Smart EPOFIL 2C/3C

Two and Three-component Epoxy resin-based Tile Joint grouting system

Description:

Epoxy resin-based tile joint grout shall be CWC®SMART EPOFIL having excellent mechanical properties and shall exceed compressive strength of 50 MPa, flexural strength of 30 MPa, and shall have pull-off adhesion strength exceeding 1.5 MPa. The formulation is water miscible to avoid stains on the tiles and ease cleaning.

Typical Properties:

Property	CWC®SMART EPOFIL 2C	CWC®SMART EPOFIL 3C
Mixed Consistency	Paste	Paste
Mixed density	1.82 kg/lit	1.82 kg/lit
Mixing Ratio, byweight	Part A: B 900:100	Part A: B: C 200:100:700
Pot life	60 Minutes at 25°C	60 Minutes at 25°C
Volume solids	100 %	100 %
Compressive strength (ASTMC 579)	>50 MPa at 7 days	>50 MPa at 7days
Flexural strength (ASTM C 580)	>30 MPa at 7 days	>30 MPa at 7days
Water absorption	<0.5 g	<0.5 g
Pull-off adhesion strength	>1.5 MPa	>1.5 MPa
Shrinkage	<1.5 mm/m	<1.5 mm/m

Uses:

- Indoor and outdoor use.
- Laboratories, kitchens, and catering facilities.
- Swimming pools and leisure facilities.
- Showers, artificial water bodies and hot springs.
- Joints in vitrified tiles.
- Sewerage plant & sewer lines.
- Heavy duty workshops, garages and services facilities.
- Bottling plants and breweries.
- Food production: meat, fish, vegetable and fruit processing, canning areas, dairies and bakeries.
- Electrical substations and plant rooms.

Advantage:

- Resistant to chemicals, many acids, grease, and oil.
- Water miscible formula - Stain free finish.
- Water impermeable and water vapor barrier protects moisture-sensitive substrates from water.
- Cures without cracking, sets without shrinking.
- Excellent adhesion to tiles and substrate.
- Resistant to frost and weathering.
- Workable and easy to apply.
- Available in range of RAL shades.
- Suitable for vertical and horizontal applications in interior and exterior locations.

Chemical resistance:

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

Coverage:

One pack of 1 Kg yields a 0.55-liter grout volume. Approx quantity of the grout can be calculated using the formula below,

$$\frac{(A + B)}{(A * B)} * C * D * 1.8 = Kg/Sqm$$

Whereas,

- A:** Length of the tile (mm)
- B:** Width of the tile (mm)
- C:** Thickness of the tile (mm)
- D:** Width of the tile joint (mm)



Concrete Works
Construction Chemicals
Private Limited

CWC® Smart EPOFIL 2C/3C

Application procedure:

Surface preparation:

Ensure all laitance and contaminants are removed. Before application, CWC®SMART EPOFIL should be stored under cover and protected from extremes of temperatures which may cause inconsistent workability.

During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C.

Consideration should be given to the substrate or base slab if it is colder than the surrounding air temperature. When temperatures exceed 30°C during application, working times may be reduced by as much as 50%.

Mixing:

CWC®SMART EPOFIL has paste-type consistency. It should be mixed mechanically using a slow-speed electric drill with a paddle attachment until a lump-free, uniform consistency is achieved.

Application:

The grouting operation can be carried out simultaneously with the application of the epoxy bedding mortar or after the cementitious bedding mortar has been set and fully cured. Note that the gap between the tiles should be filled with tile adhesive as a bed so that the tile grout won't sag.

Apply the epoxy grout to the joints with a plastic spatula and finish off. Following the grouting operation use a fibrous pad or wet soft cloth to clean off the excess material.

This should take place within 15 minutes and care should be exercised not to use excess water or allow water to come into contact with the wet grout. Surplus material must be removed from the face of the tiles before it is set.

$12 \text{ mm} > T$; Depth = $T/2$ $12 \text{ mm} < T$; Depth = $2 \times T$ Where T is the thickness

Packaging:

CWC®SMART EPOFIL 2C and 3C are available in 1 and 5 kg pack.

CWC®SMART EPOFIL is available in selective shades

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.

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