

Shieldfill EG10



Premium, Two-component, Solvent-free Epoxy Tile Grout
(Formerly Known as Shieldgrout EG10)

Description

Shieldfill EG10 is a high-quality, two-component, colored epoxy tile grout, designed for grouting all types of tiles with joint widths of up to 10mm. **Shieldfill EG10** provides excellent chemical and mechanical resistance with color stability, and is suitable for internal and external applications.

Uses

- Residential, commercial, and public utility buildings.
- Recommended for wet areas, such as toilets, kitchens, and swimming pools.
- Internal and external applications.
- Ceramics, porcelain, mosaic tiles, and natural stone.
- Food packaging areas, hospitals, and laboratories.

Characteristics / Advantages

- Color stable and durable.
- Fast return to service.
- Ease to use and clean.
- Superior adhesion strength with excellent adhesion to dry and wet surfaces.
- Excellent resistance to chemicals, mould, and stains.
- Durable, tough, and resistant to cracks.

Standard Compliance

EN 13888:2009, Class RG

Shelf Life and Storage

Shieldfill EG10 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Typical Properties

Mixed Density (@ 23°C)	1.70 ± 0.1 g/ml
Pot Life (@ 23°C)	40 minutes
Mixing Ratio (B:H)	9 : 1
Full Cure	7 days
Joint Width	1 – 10 mm
Flexural Strength after Dry Storage (EN 12808-3)	≥ 30 MPa
Compressive Strength after Dry Storage (EN 12808-3)	≥ 45 MPa
Water Absorption (EN 12808-5)	≤ 0.1 g

Packaging

Shieldfill EG10 is supplied in 3 kg kits.

Application Instructions

1. Surface Preparation

Tile edges and joints must be clean from dust, oils, dirt, etc. Do not start grouting unless the tile adhesive has sufficiently been set (after 24 hours at least). Remove any spacers between the tiles and make sure to clean the surface of the tiles from any dust or debris. For tiles and natural stones that are sensitive to color change, a reference sample should be made to ensure suitability.

2. Mixing

Component B (hardener pack) should be added to **Component A** (base pack) and mixed using a low-speed mixing drill for 3 minutes while reaching the walls and the bottom of the container until a homogeneous and consistent material is obtained. Avoid mixing too vigorously to eliminate introducing air bubbles. Once mixed, the material should be used within its specific pot life.



3. Application

Apply the mixed material of **Shieldfill EG10** to joint gaps using a rubber-base pointed trowel/ float diagonally and press the material firmly into the joints to make sure that joints are filled completely within 20 – 25 minutes of mixing.

Begin the initial cleaning across the tiles using a damp sponge, wiping off any excess material from the tile surface within 20 minutes in a circular motion to get optimum results. Rinse the sponge frequently to avoid spreading grout residue.

4. Cleaning

All mixing equipment and application tools should be cleaned immediately with clean water.

The tile surface should be cleaned with water before the initial set, hardened material should be removed using a suitable solvent or mechanically.

The applied grout should not be cleaned using cleaning agents within 7 days of application. Only clean water is allowed during this time.

Consumption

Grout consumption depends on the tile dimensions and joint width. Please refer to the consumption rate table on page no. 3 for details.

Note: The coverages shown are theoretical and may vary due to site wastage and actual joint depth/width.

Safety Instructions

The application should be done in a well-ventilated area with adequate air circulation, away from any heat source, and ensure having gloves, eye protection, masks, and protective clothing.

Avoid contact with the eyes and skin. In case of direct contact with the skin, wash the affected area immediately with water for several minutes. If it comes into contact with the eyes, rinse immediately with lukewarm water for at least 15 minutes and get medical advice or treatment if any emergency warning signs appear. Dispose of any leftover epoxy and waste materials according to local regulations. For further information, refer to the Material Safety Data Sheet.

Limitations

- Do not apply the product if the ambient temperature is less than 10°C.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C. In hot conditions, store the material in a cool environment prior to mixing.
- Don't apply the product on wet/damp tile joints.
- Apply masking tapes along tile joints while working on unglazed floors, or porous tiles.
- Do not add water or solvents to **Shieldfill EG10** to increase workability.
- Do not use aggressive detergents during the first 7 days of application.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

Consumption Rate

Based on theoretical calculations, actual consumption and coverage may vary due to substrate profile, site conditions, and wastage rate.

Tile Size			Consumption (kg/m2)									
Length (mm)	Width (mm)	Thickness (mm)	Joint Width (mm)									
			1	2	3	4	5	6	7	8	9	10
20	20	3	0.51	1.02	1.53	2.04	2.55	3.06	3.57	4.08	4.59	5.10
50	50	6	0.41	0.82	1.22	1.63	2.04	2.45	2.86	3.26	3.67	4.08
100	100	6	0.20	0.41	0.61	0.82	1.02	1.22	1.43	1.63	1.84	2.04
150	150	6	0.14	0.27	0.41	0.54	0.68	0.82	0.95	1.09	1.22	1.36
200	200	7	0.12	0.24	0.36	0.48	0.60	0.71	0.83	0.95	1.07	1.19
200	300	7	0.10	0.20	0.30	0.40	0.50	0.60	0.69	0.79	0.89	0.99
300	300	8	0.09	0.18	0.27	0.36	0.45	0.54	0.63	0.73	0.82	0.91
400	400	10	0.09	0.17	0.26	0.34	0.43	0.51	0.60	0.68	0.77	0.85
450	450	10	0.08	0.15	0.23	0.30	0.38	0.45	0.53	0.60	0.68	0.76
500	500	10	0.07	0.14	0.20	0.27	0.34	0.41	0.48	0.54	0.61	0.68
600	600	10	0.06	0.11	0.17	0.23	0.28	0.34	0.40	0.45	0.51	0.57

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