

BEAUTIFYING YOUR HOMES TILE BY TILE

EG-100 EPOXY TILE GROUT

TECHNICAL DATA SHEET



High Strength



Highly Water Resistant



Chemical Resistant



Zero Stain Grout



Temperature Resistant



Low VOC



Available in 1 kg & 5 kg

PRODUCT DESCRIPTION

Magicrete EG-100 Epoxy Tile Grout is a three-component color-fast, chemical resistant, hard wearing, impervious epoxy tile joint filler and is 100% stain-proof. It effectively fills the gaps between tiles to give a hard-wearing, dust-proof tile joint. It is well suited for residential and commercial installations where materials must resist physical abuse, shock, and chemical aggression.

SUITABLE FOR

- Vitrified Tiles
- Ceramic Tiles
- Granite
- Marble
- Terrazzo Tile
- Agglomerates Stones
- Large Format Tiles
- Glass Mosaic Tiles
- Porcelain Tiles
- Natural Stones

APPLICATION AREAS

- Moisture sensitive areas
- Water submerged areas
- Hygiene required areas
- Areas prone to aggressive Chemicals
- Heavy traffic/movement areas
- Residential & Commercial Installations
- Wider Tile Joints
- Interior Areas

TECHNICAL DETAILS

Conforms To ANSI A118.3-1999; EN 13888 RG; ISO 13007-4(G); IGBC; EN12004 R2T

Physical Properties @ 27± 1°C

Appearance	Part A Resin (White Viscous Liquid) Part B Hardener (Pale Yellow Viscous Liquid) Part C Filler (Coloured Powder)
Mixing Ratio	18 (Part A): 7 (Part B): 75 (Part C)
Mixed Material Consistency	Smooth Creamy Paste
Mix Density	1700±50 Kg/mm ³
Pot Life	Min. 60 minutes
Foot Traffic	24 Hours
Heavy Traffic	3 Days
Joint Width	2-12 mm
Sag Resistant	No Sag
Total VOC Content {EPA 24 Method}	<8 gm/Kg
Application Temperature	10 °C to 35 °C
Temperature of Use	-20 °C to 100 °C
Coverage Chart	Refer Coverage Chart on Page 5
Chemical Resistance	Refer Table on Page 6
Available Shades	40+

PERFORMANCE PROPERTIES

ANSI A118.3

PARAMETERS	REQUIREMENTS	RESULTS	TEST METHODS
Water cleanability	>80 Minutes	100-120 Minutes	ANSI A 11 8.3: Clause 5.1
Initial setting time	>120 Minutes	150-180 Minutes	ANSI A 11 8.3: Clause 5.2
Service setting time	< 7 Days	2-3 Days	ANSI A 11 8.3: Clause 5.2
Shrinkage after 7 Days	< 0.25%	<0.10%	ANSI A 11 8.3: Clause 5.3
Sag in vertical joints	No Sag	Pass	ANSI A 11 8.3: Clause 5.4
Bond strength to quarry tile	>6.87 N/mm ²	8.2 N/mm ²	ANSI A 11 8.3: Clause 5.5
Compressive strength after dry storage	>45 N/mm ²	52-56 N/mm ²	ANSI A 11 8.3: Clause 5.6
Tensile strength @ 7 days	>6.87 N/mm ²	10-11 N/mm ²	ANSI A 11 8.3: Clause 5.7
Thermal shock	>3.43 N/mm ²	7.5 N/mm ²	ANSI A 11 8.3: Clause 5.8

The grout mortar conforms to ANSI A118.3-1999

ISO 13007/ EN 13888

PARAMETERS	PARAMETERS	RESULTS	TEST METHODS
Abrasion resistance	<250 mm ³	130-170 mm ³	ISO 13007-4: Clause 4.4, EN 12808 - 2
Flexural strength after dry storage	>30 N/mm ²	35-40 N/mm ²	ISO 13007-4: Clause 4.1.3, EN 12808 - 3
Compressive strength after dry storage	>45 N/mm ²	50-55 N/mm ²	ISO 13007-4: Clause 4.1.4, EN 12808 - 2
Shrinkage	< 1.5 mm/m	0.02-0.04 mm/m	ISO 13007-4: Clause 4.3, EN 12808 - 5
Water absorption after 240 minutes	< 0.1 g	0.04-0.06 g	ISO 13007-4: Clause 4.2, EN 12808 - 5

The grout mortar conforms to ISO 13007- 4(G)/ EN 13888 RG/ EN 12004 R2T

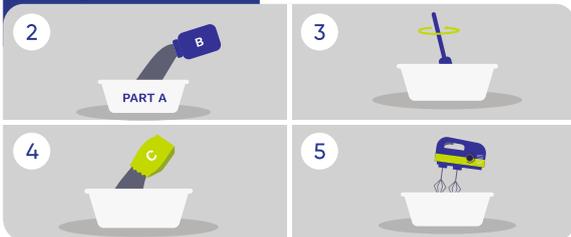
INSTALLATION

Surface Preparation



- Ensure that the surface to be grouted is clean and free from any dirt, dust, debris, or other contaminants. You can use a sponge, cloth, or vacuum to remove these impurities.
- Avoid using acid tile cleaners as they may affect the adhesion of the grout. If you have used an acid cleaner, rinse the area thoroughly with water before proceeding.
- Remove any existing grout: If there is any existing grout between the tiles, it should be removed using a grout saw or a rotary tool. Make sure to remove all the old grout to ensure proper adhesion of the new grout.

Mixing



- Before blending, shake the hardener bottle and thoroughly stir the base.
- Combine Part A (Hardener) and Part B (Resin) in a clean bucket.
- Ensure a thorough blend by either mixing by hand or using a mixer with a speed of less than 300 RPM.
- Integrate Part C Filler Powder and mix until achieving a consistent color and texture. The mixture should be sufficiently stiff to be worked into the joints.
- Be careful not to introduce air into the mixture by avoiding very high mixing speeds or over-mixing.
- The paste should be used within 45 to 60 minutes after mixing.

Application



- Use a hard rubber squeeze or grout float to firmly press EG-200 grout into the joints.
- Hold the float at a 90° angle and pull it diagonally across the joints and tilt at a 45° angle to avoid pulling out of material.
- Continue filling the joint with EG-200 until it is completely packed with the material. Ensure there are no voids or air pockets in the joints.
- Check the filled joints every 20–40 minutes to see if they have started to harden.
- The surface temperature must be between 15°C to 35°C (59°F to 95°F) for optimal grout application.

Note: *Movement Joints should be provided in accordance with BS 5385: parts 1-5 and may be filled with the appropriate flexible sealant.*

Cleaning



- Remove any surplus grout from tile joints and tiles within 30–45 minutes or before the product sets.
- Initially, employ a damp, coarse-textured sponge to eliminate grout residue. Follow up with a wet towel 12–24 hours later to clear any remaining haze.
- Address persistent grout stains with Magicrete CleanPro or an alkaline detergent that won't compromise the joint finish.
- Steer clear of abrasive cleaners or tools that may cause scratches or damage to the surface.
- Clean tools and containers promptly with fresh water while the grout is still in its initial state.

COVERAGE CHART

Tile Dimension (mm)			Theoretical Coverage in kg/m ²						
Length	Width	Thickness	Width of joint (mm)						
			2	3	4	5	6	8	10
25	25	6	1.632	2.448	3.264	4.080	4.896	6.528	8.160
25	50	6	1.224	1.836	2.448	3.060	3.672	4.896	6.120
50	50	6	0.816	1.224	1.632	2.040	2.448	3.264	4.080
100	100	6	0.408	0.612	0.816	1.020	1.224	1.632	2.040
100	100	10	0.680	1.020	1.360	1.700	2.040	2.720	3.400
300	200	6	0.170	0.255	0.340	0.425	0.510	0.680	0.850
300	300	6	0.136	0.204	0.272	0.340	0.408	0.544	0.680
450	300	6	0.113	0.170	0.227	0.283	0.340	0.453	0.567
600	300	6	0.102	0.153	0.204	0.255	0.306	0.408	0.510
600	600	8	0.091	0.136	0.181	0.227	0.272	0.363	0.453
800	800	8	0.068	0.102	0.136	0.170	0.204	0.272	0.340
1000	1000	10	0.068	0.102	0.136	0.170	0.204	0.272	0.340
1200	600	10	0.085	0.128	0.170	0.213	0.255	0.340	0.425
1200	800	10	0.071	0.106	0.142	0.177	0.213	0.283	0.354
1200	1200	12	0.068	0.102	0.136	0.170	0.204	0.272	0.340
1600	800	12	0.077	0.115	0.153	0.191	0.230	0.306	0.383
1800	1200	12	0.057	0.085	0.113	0.142	0.170	0.227	0.283

*The coverage details mentioned in the chart can vary as per the size of the tiles, joint width, and application method.

Coverage Calculation Formula

$$C = 1.70 \times H \times T \times [(L+W)/(L \times W)]$$

H - Tile Thickness (mm)

T - Joint Width (mm)

C - Coverage (mm)

W - Tile Width (mm).

COLOUR

Choose from a range of 40+ colours of EG-100 Epoxy Tile Grout.

For choosing the right colour refer to Magicrete shade card



SCAN FOR SHADE CARD

COVERAGE

For interactive coverage calculator visit us

<https://www.magicrete.in/tileadhesive>



SCAN FOR INTERACTIVE CALCULATOR

CHEMICAL RESISTANCE @27±1°C

Chemical/ Reagent Name	Constant Exposure	Splash Exposure
H ₂ SO ₄	✓	✓
Acetic Acid	✓	✓
Baking Soda	✓	✓
Sodium Hydroxide	✓	✓
Calcium Chloride	✓	✓
Chloroform	✗	✗
Methylene Chloride	✗	✗
Sugar	✓	✓
Tea	✓	✓
Juice	✗	✓
Beer	✓	✓
Oil	✓	✓
Soft Drink	✓	✓
Vinegar	✓	✓
Nitric Acid	✗	✓
Citric Acid	✓	✓
Ethanol	✗	✓
Potassium	✓	✓
Permanganate	✓	✓

Chemical/ Reagent Name	Constant Exposure	Splash Exposure
HCL	✓	✓
Formic Acid	✓	✗
Tartaric Acid	✓	✓
Tannic Acid	✓	✓
Benzoic Acid	✓	✓
Oxalic Acid	✗	✓
Butter	✗	✓
MEK	✓	✓
Carbon Tetra Chloride	✓	👍
Ethylene Glycol	✗	✓
Ammonia Solution	✓	✓
Toluene	✓	👍
Hypochlorine Solution	✓	✓
Xylene	✓	✓
Hydrogen Peroxide	✗	✓
Butyl Acetate	✓	✓
Milk	✗	✓
Acetone	✗	👍
Glycerol	✓	✓

✓ Suitable

👍 Adequate

✗ Not Suitable



SHELF LIFE

EG-100 carries a shelf life of 12 months, if stored in cool & dry place. However, as temperature, humidity, & other parameters vary from site to site; the information should be treated as a general guideline.

LIMITATIONS

- The use of grouts for tiles does not replace the need for waterproofing membranes. It is recommended to use waterproofing products (also available from Magicrete for the same purpose)
- Light-colored grouts may darken slightly when exposed to direct UV light. It is advisable to consult with Technical Services for specific recommendations for exterior installations.
- Grouts are not recommended for use on soft polished marble or delicate glazed tiles.

SAFETY PRECAUTIONS

- Keep out of reach of children.
- Wear suitable protective clothing, gloves, and eye/face protection. After contact with the skin, wash immediately with plenty of clean water. In case of eye contact, rinse immediately with plenty of clean water and seek medical advice.
- It is limited to professional use only. For more details, please refer to the relevant Material Safety Data Sheet, available on request.

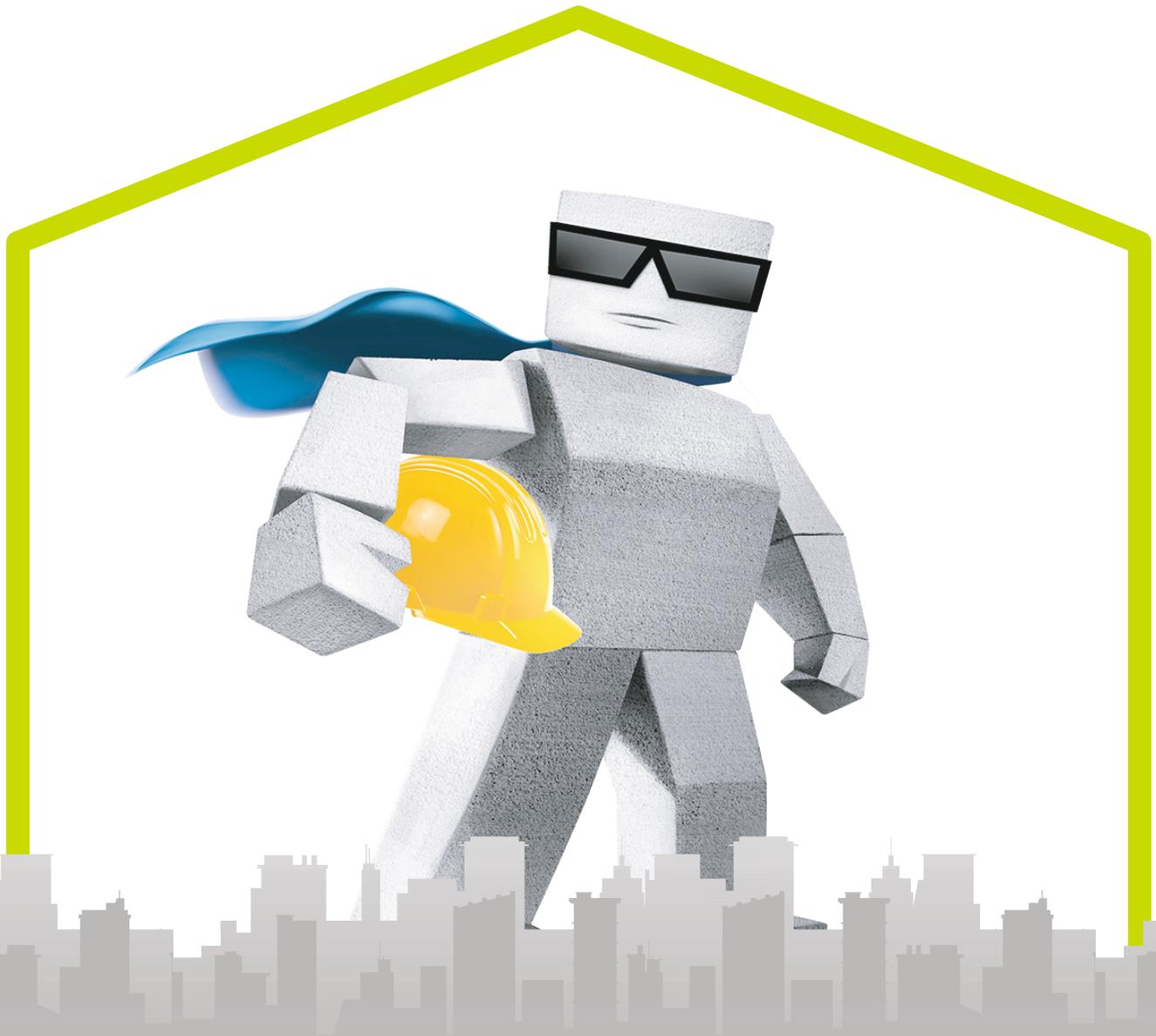
IMPORTANT NOTES

- After 10 days of installation, the maximum stain resistance of the grouted surface is achieved. During this period, it is recommended to protect the surface from exposure to acids and strong cleaners.
- Avoid using grouts in areas with heavy machinery, vehicular traffic, or high footfall.
- While cleaning, change the water/ cloth/ sponge frequently when impregnated with grout.
- When used in shower and pool areas it is recommended to wait for atleast 7 days after grouting.
- Ensure compatibility of the tiles/stones with the mixed material used for grouting. Always refer to the methodology of application section and literature provided by the tile/stone manufacturer and perform a small sample test before grouting the entire area.
- When applying EG-100 to open areas such as swimming pools, protect the working area from sunlight and keep the entire area covered for 7 days. This likely means that EG-100 is sensitive to UV light and needs to be shielded from it while it cures.
- Follow all safety standards and national regulations.
- Should be used when the temperature is between +5 °C and +30 °C.
- Use packs that have been stored at +20 °C for 2 to 3 days.
- Request the safety data sheet if required.
- For any other issues, contact 80 70 40 80 10 or email at info@magicrete.in.

*While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company office in your location.

magicrete[®]

magic behind happy homes



Magicrete Building Solutions Pvt. Ltd.

(ISO 9001 :2015, ISO 14001 :2015 & ISO 45001 :2018 Certified co.)

101 Ritz Square, Near Narmad Library,
Ghod Dod Road, Surat-395007 (Gujarat)

80 70 40 80 10

info@magicrete.in

magicrete.in



SCAN FOR
DIGITAL COPY

