



SAFFROKOL™

SAFFROEPOXY 3K

Technical Data Sheet



Durable and Crack-Free



High-gloss finish



Waterproof Protection



Stain-resistant joints



Resistant to chemicals



High compressive strength

PRODUCT DESCRIPTION

Saffroepoxy 3K is a premium three-component epoxy grout that combines strength, waterproofing, and stain resistance. Designed for both narrow and wide joints and offers the best durability, making it the perfect choice for flawless tile work.

FEATURES AND BENEFITS

- Durable and crack-free
- Waterproof Protection
- Stain-resistant joints
- High-gloss finish
- Resistant to chemicals
- Prevents mold growth
- Low maintenance and easy-to-clean
- High compressive strength

APPLICATION AREAS

- Suitable for both dry and wet areas
- Ideal for kitchens, bathrooms, and swimming pools
- Designed for high-traffic spaces
- Perfect for residential and commercial use
- Recommended for showrooms, multiplexes, and shopping malls
- Good for hotels and industrial applications

SUITABLE FOR

- Vitrified and Ceramic Tiles
- Granite and Marble Surfaces
- Large-format & Glass Mosaic Tiles
- Porcelain & Terrazzo Tiles
- Natural Stone
- Thin Slabs

TECHNICAL DETAILS

Conforms To IS 17190:2020 RG2i; EN 13888 RG; ISO 13007-4(C) EN12004 R2T

PHYSICAL PROPERTIES @27+1°C

Parameter	Results
Appearance	Part A (Resin) : Part B (Hardener) : Part C (Filler)
Mixing Ratio (Part A : Part B : Part C)	2:1:7
Mixed Material Consistency	Smooth Creamy Paste
Mixed Density	1700±50 Kg/mm ³
Pot Life 27±2°C	60 minutes
Workability 27±2°C	45 minutes
Foot Traffic 27±2°C	24 Hours
Initial Setting time 27±2°C	≥3 Hours
Joint Width	2-12mm
Sag Resistant	Non-sag
Total VOC Content {EPA 24 Method}	<8gm/Kg
Application Temperature	10°C to 35 °C
Temperature of Use	20°C to 100 °C

PERFORMANCE PROPERTIES

ISO 13077 / EN 1388

Parameter	Requirements	Results	Test Methods
Abrasion resistance	< 250mm ²	130 - 170 mm ²	ISO 13007-4: Clause 4.4, EN 12808 - 2
Flexural strength under freeze and thaw cycles	> 30N/mm ²	35-40 N/mm ²	ISO 13007-4: Clause 4.1.5, EN 12808 - 3
Compressive Strength under standard conditions	>45 N/mm ²	50-55 N/mm ²	ISO 13007-4: Clause 4.1.4; EN 12808-2

Parameter	Requirements	Results	Test Methods
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

COVERAGE CHART

Tile Dimension (mm)			Theoretical Coverage in Kg/m						
Length	Width	Thickness	Width of joint (mm)						
			2	3	4	5	6	8	10
25	25	6	1.536	2.304	3.072	3.840	4.608	6.144	7.680
25	50	6	1.152	1.728	2.304	2.880	3.456	4.608	5.760
50	50	6	0.768	1.152	1.536	1.920	2.304	3.072	3.840
100	100	6	0.384	0.576	0.768	0.936	1.152	1.536	1.920
100	100	10	0.640	0.960	1.280	1.600	1.920	2.560	3.200
300	200	6	0.160	0.240	0.320	0.400	0.480	0.640	0.800
300	300	6	0.128	0.192	0.256	0.320	0.384	0.512	0.640
450	300	6	0.107	0.160	0.213	0.267	0.320	0.427	0.533
600	300	6	0.096	0.144	0.192	0.240	0.288	0.384	0.480
600	600	8	0.085	0.128	0.171	0.213	0.256	0.341	0.427
800	800	8	0.064	0.096	0.128	0.160	0.192	0.256	0.320
1000	1000	10	0.064	0.096	0.128	0.160	0.192	0.256	0.320
1200	600	10	0.080	0.120	0.160	0.200	0.240	0.320	0.400
1200	800	10	0.067	0.100	0.133	0.167	0.200	0.267	0.333
1200	1200	12	0.064	0.096	0.128	0.160	0.192	0.256	0.320
1600	800	12	0.072	0.108	0.144	0.180	0.216	0.288	0.360
1800	1200	12	0.053	0.080	0.107	0.133	0.160	0.213	0.267

INSTALLATION GUIDE FOR SAFFROKOL EPOXY GROUT

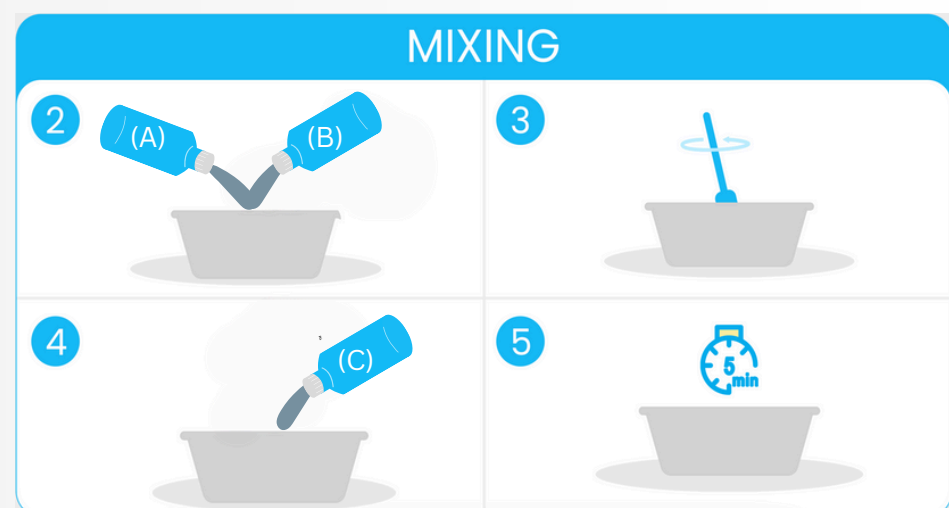
1. Surface Preparation

- **Clean the Tiles** – The tile joints and surrounding areas should be free from dust, dirt, and any leftover grout.
- **Keep Joints Dry** – The joints should be fully dry before applying epoxy grout. Any moisture can weaken adhesion and cause bonding issues.
- **Choose the Right Conditions** – Avoid applying epoxy grout on rainy or humid days, as excess moisture in the air can interfere with proper curing.
- **Protect Surrounding Areas** – Use painter's tape to shield surfaces that are not being grouted, as epoxy can be difficult to clean once it sets.



2. Mixing Instructions

- **Combine Components** – Pour Resin Paste (Part A) into a clean bucket, then add Hardener (Part B)
- Stir the mixture for 2–3 minutes using a margin trowel or a low-speed mixer until it becomes smooth and uniform in colour and texture.
- **Add the Filler:** Gradually add the filler (Part C) to the mixed resin and hardener. Continue mixing until you achieve a uniform, consistent colour and texture. No unmixed material should remain at the bottom or sides of the container.



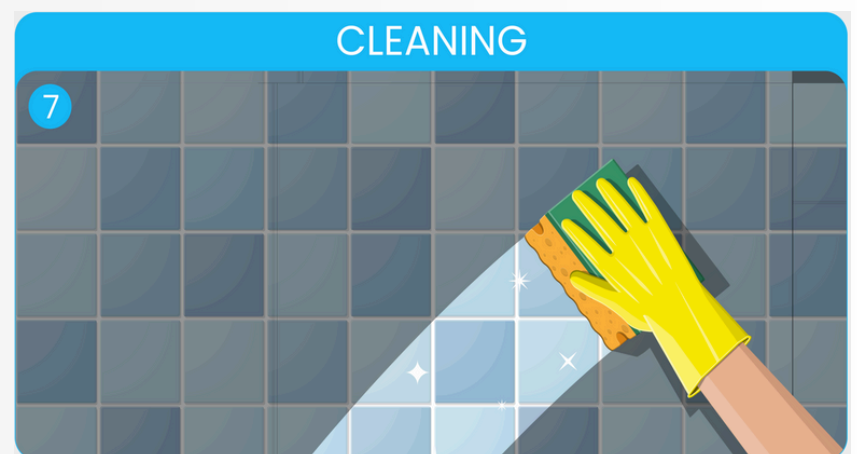
3. Apply the grout

- Use a grout float to evenly spread the epoxy grout onto the tile surface.
- Hold the float at a 45-degree angle and firmly press the grout into the joints, and they should be filled.
- Work in small sections to prevent the grout from drying before it can be cleaned.
- Once applied, use the float at a 90-degree angle and move it diagonally across the tiles to remove any excess grout.



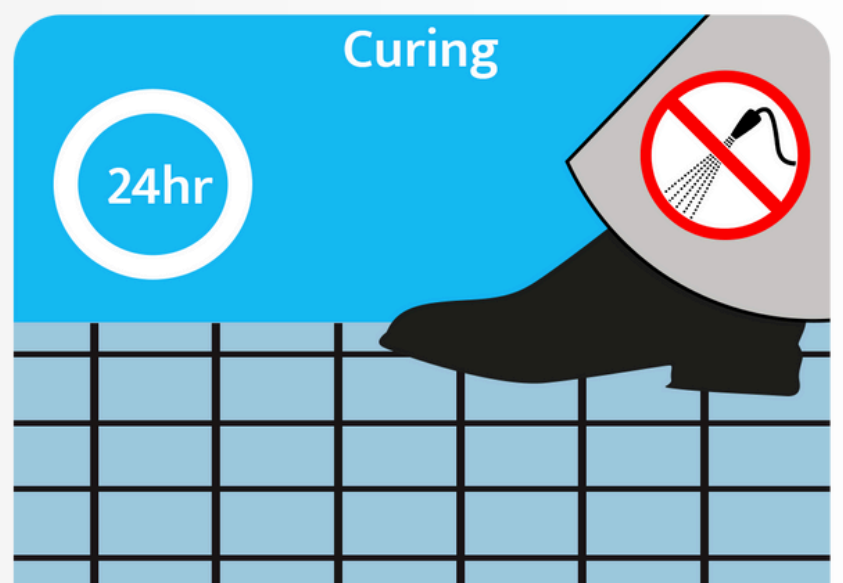
4. Clean the tiles

- Now wait for about 10–15 minutes to allow the grout to set slightly, though the exact time may vary depending on the product and surrounding conditions.
- Dampen a grout sponge with clean water, squeeze out excess moisture, and gently wipe the tile surface to remove any grout haze.
- Rinse the sponge frequently and replace the water as needed for a clean finish.



5. Curing

- The grout typically takes 24 to 48 hours to fully harden. Keep the area dry during this period.
- Protect it from foot traffic or any disturbances to allow proper curing.



COLOUR

Choose from a range of 20 colours of Saffroepoxy 3K

For choosing the right colour refer to SAFFROKOL shade card



SCAN FOR
SHADE CARD

COVERAGE

For interactive calculator

Scan QR CODE



LIMITATIONS

- Grout is not a substitute for a waterproofing membrane. If waterproofing is needed, use a suitable product, such as our waterproofing solutions.
- Not recommended for soft, polished marble or delicate glazed tiles.

SHELF LIFE

Saffroepoxy 3K has a shelf life of 12 months when kept in a cool, dry place. However, since factors like temperature, humidity, and site conditions can vary, this timeframe should be considered a general guideline.

SAFETY PRECAUTIONS

- Keep away from children.
- Wear appropriate protective clothing, gloves, and eye/face protection while handling.
- If grout comes into contact with skin, wash thoroughly with clean water.
- In case of eye contact, rinse immediately with plenty of water and seek medical attention.
- For professional use only.

KEY NOTES

- The grouted surface reaches its maximum stain resistance 10 days after installation. During this time, protect it from acids and strong cleaners.
- Avoid using grout in areas with heavy machinery, vehicle traffic, or high foot traffic.
- When cleaning, frequently change the water, cloth, or sponge to prevent grout buildup.
- For shower and pool areas, wait at least 7 days after grouting before exposing the surface to water.
- The tiles or stones should be compatible with the grout mixture. Always refer to the application guidelines from the tile/stone manufacturer and conduct a small test patch before grouting the entire area.
- Follow all safety standards and national regulations.
- Use grout only when the temperature is between +5°C and +30°C.
- For any further assistance, call us



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