



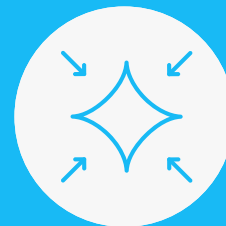
SAFFROKOL™

GOLD MAGIC 5 STAR (GREY)

Technical Data Sheet



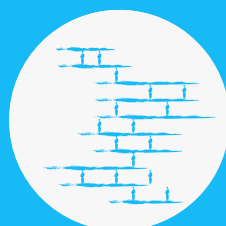
High Bond Strength



No Shrinkage



High polymer Modified



For Floors and walls



Low VOC (ecofriendly)



Easy to use

PRODUCT DESCRIPTION

Saffrokol™ Gold Magic Adhesive is a top-quality, polymer-modified adhesive for fixing ceramic and vitrified tiles on walls and floors indoors. It offers strong bonding, smooth application, and shrinkage resistance, ensuring a durable finish & it's ideal for both residential and commercial use.

SUITABLE FOR

Materials & Areas:

- Ceramic Tiles
- Vitrified Tiles
- Walls and Floors
- Residential and Commercial Applications
- Dry Areas

Substrate:

- Cement mortar beds
- Cement plastered surfaces
- Concrete floors
- Cement screed layers
- Cement terrazzo flooring
- Brick masonry
- AAC block masonry
- Concrete block masonry
- Cement based self-levelling screed

TECHNICAL DETAILS

Gold Magic Adhesive [Conforms to IS 15477:2019 Type 2 'T'; EN 12004 C2T](#)

PHYSICAL PROPERTIES @ 70° F (21° C)

Tile laying adhesive mixed with water

Parameter	Results
Colour	Grey
Mixing Ratio (Powder to Water)	3.5 to 1
Bulk Density	1.3 to 1.5 gm/cc
Mixing Density	1.7 to 1.9 gm/cc
Pot Life	>2 hrs
Open Time	~25 mins
Adjustability	~20 mins
Final Setting Time	24 hours
Max. Bed Thickness	12 mm
Time to Light Foot Traffic	16-24 hours

PERFORMANCE PROPERTIES

Tile Laying Adhesive mixed with water

IS 15477:2019

Parameter	Requirements	Results	Test Methods
Tensile Adhesion (Dry Condition 28 Days)	1 N/mm ²	1.30-1.40 N/mm ²	IS 15477:2019 Annexure A Clause 5.1
Tensile Adhesion (Wet Condition 28 Days)	1 N/mm ²	1.20-1.30 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Dry Condition 28 Days)	1.25 N/mm ²	2.10-2.22 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Heat Aging Condition 28 Days)	1 N/mm ²	1.44-1.54 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Wet Condition 28 Days)	1 N/mm ²	1.60-1.70 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Slip Resistance	<0.5 mm	0.34-0.38 mm	IS 15477:2019 Annexure E Clause 5.5

Gold Magic Adhesive mortar conforms to IS 15477:2019 Type 2T

EN 12004

Parameter	Requirements	Results	Test Methods
T-Slip Resistance	≤0.5 mm	0.34-0.38 mm	EN 1308
Tensile Adhesion Strength (C2)	≥1 N/mm ²	1.25-1.35 N/mm ²	EN 1348 Clause 8.2
Tensile Adhesion Strength (After Water Immersion)	≥1 N/mm ²	1.15-1.25 N/mm ²	EN 1348 Clause 8.3
Tensile Adhesion Strength (Heat Ageing)	≥1 N/mm ²	1.25-1.35 N/mm ²	EN 1348 Clause 8.4
Tensile Adhesion Strength (Freeze & Thaw)	≥1 N/mm ²	1.20-1.25 N/mm ²	EN 1348 Clause 8.5

Gold Magic Adhesive mortar conforms to EN 12004 C2T

INSTALLATION GUIDE FOR SAFFROKOL TILES ADHESIVE

1. Surface Preparation

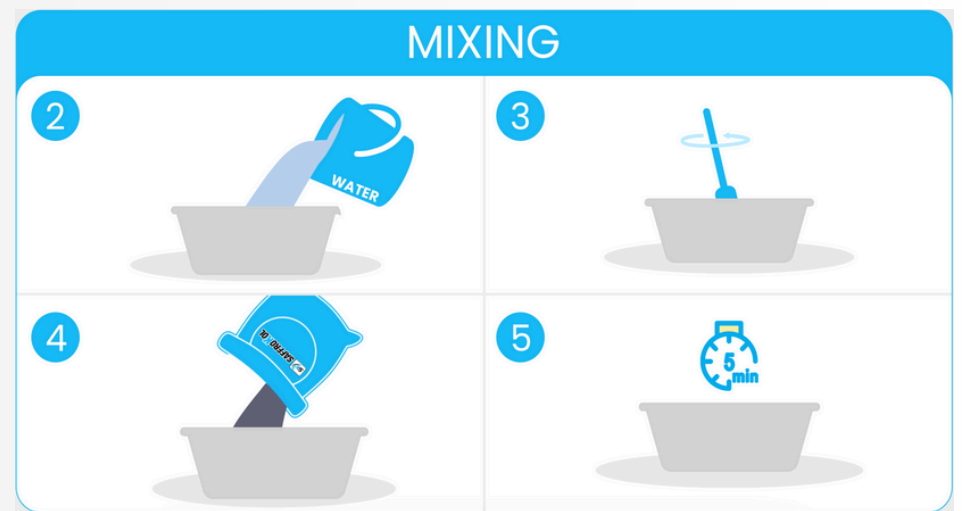
- **Surface Requirements:** The Surface should be leveled, properly cured and undamaged. And it must be dry and free from any debonding agents.
- **Highly Absorbent Surfaces:** For highly absorbent concrete surfaces, pre-wet or dampen with clean, fresh water.



2. Mixing Instructions

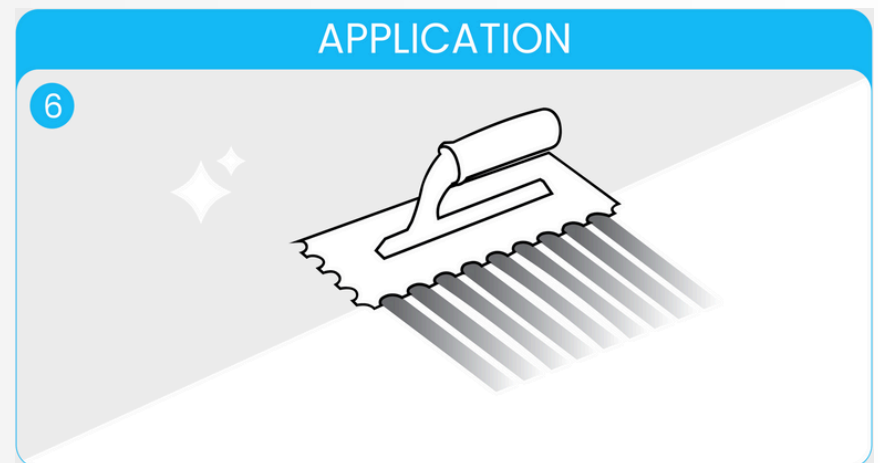
- Use 5 to 6 liters of potable water for 20kg of adhesive.
- Take the mentioned amount of water in a clean mixing container.
- Add the dry adhesive to the water (and not vice versa).
- Blend the mixture using a low speed electric mixer (less than 500 rpm) for smooth and lump free consistency.
- Mix for 2-3 minutes until the mixture has a uniform color and texture.

- Keep the mixture for 4–5 minutes without stirring to get matured.
- Remix the adhesive for 15 seconds before applying and avoid over-mixing to prevent the formation of air bubbles.



3. Applying the Adhesive

- Using the flat side of trowel, spread the adhesive evenly in a scraping motion.
- Apply additional mortar for better grip & coverage using the notched edge of the trowel.
- For tiles larger than 2 feet, use extra adhesive to the back of the tile using the flat side of the trowel.
- Also check after few hours if the tiles are properly fixed.
- If the adhesive becomes non-sticky, remove it and apply fresh adhesive.
- Gently tap the tiles with a rubber mallet to ensure proper bedding and alignment.



4. Creating Expansion Joints

- Provide adequate space for joints to allow for movement and prevent cracking over large areas.
- Always maintain structural, perimeter, and fractionizing joints present on the surface.

5. Cleaning

- Remove excess adhesive from the tile surface immediately after fixing.
- Clean grout lines using a damp sponge or cloth to prevent drying stains.



6. Grouting

- Allow the adhesive to cure for 24 hours before grouting.
- Use recommended grouting materials, such as cementitious or epoxy grout, to ensure durability and a seamless finish.



COVERAGE

Each 20 kg bag provides a coverage of 45–55 sq. ft. with a bed thickness of 3 mm, when applied using a 6 mm x 6 mm square notched trowel.

Note: The actual coverage may vary depending upon the smoothness and evenness of the substrate, as well as the thickness of the mortar applied.

SHELF LIFE

Factory-sealed bags of Saffrokol™ Gold Magic Adhesive have a shelf life of 12 months when stored in a cool and dry place.

Note: Shelf life may vary depending on factors such as temperature, humidity, water addition, and site-specific conditions.

SAFETY GUIDELINES

- Store the product out of reach of children.
- Use protective gear such as gloves, appropriate clothing, and eye/face shields during application.
- If skin contact occurs, wash immediately with plenty of clean water.
- For eye contact, rinse thoroughly with clean water and consult a doctor without delay.

KEY NOTES

- Always add the powder to water during mixing.
- Do not exceed the recommended amount of water.
- Avoid adding extra cement or sand to the adhesive, as it may disrupt the product's formulation and compromise performance.
- Do not use the adhesive on wet screed; the surface must be fully cured for at least 28 days.
- This adhesive is not suitable for correcting surface irregularities beyond 12 mm (can extend to 15 mm in limited cases).
- For heavy stone or large tiles installed above 3 meters, evaluate the need for additional mechanical fastening systems (e.g., steel hooks secured to the substrate).
- Protect the adhesive application from direct rainfall or foot traffic for at least 24 hours.
- Leave proper gaps between tiles using spacers and fill these gaps with tile grout.
- Use the correct size of notched trowel to ensure the required adhesive thickness is achieved.
- Do not use the adhesive on deformable or vibrating substrates.



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