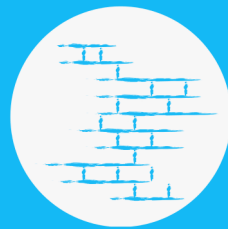




SAFFROKOL™

GREY PLATINUM

Technical Data Sheet



For walls and Floors



No Shrinkage



Exceptional shear and Tensile adhesion strength



High Polymer Modified Adhesive



Very High Sag Resistance



Easy to Mix

SK SAFFROKOL™

NET WEIGHT 20KG

GREY PLATINUM 095



ADHESIVE FOR FIXING MARBLE, GRANITE, HEAVY TILES AND OTHER NATURAL STONES
INTERIOR & EXTERIOR APPLICATIONS

- For Walls and Floors
- No Shrinkage
- High Polymer Modified Adhesive
- Very High Sag Resistance
- Easy to use
- Exceptional shear and Tensile adhesion strength
- Ideal for Large Format Stones
- Eco-Friendly with Low VOC content

INSPIRED BY GERMAN TECHNOLOGY

मर्मर, ग्रेनाइट, भारी टाइल्स और अन्य नैचुरल स्टोन्स लगाने के लिए एडहेसिव (इंटीरियर और एक्सटीरियर में उपयोग करें)

- दीवारों और फर्श के लिए उपयुक्त
- उच्च पीएलमिड से बना
- बड़े आकार के स्टोन्स के लिए आदर्श
- आसान उपयोग
- असाधारण शियर और टेंसाइल पिपकने की ताकत
- कोई सिकुड़न नहीं
- पर्यावरण के अनुकूल, कम VOC सामग्री
- बहुत उच्च सैग प्रतिरो

TYPE - IV

Class	Characteristics
C2	TE S1

Complaint with EN 12004 Standard



Technical Datasheet



9100213807

PRODUCT DESCRIPTION

Saffrokol™ Grey Platinum Adhesive is a premium adhesive designed for marble, granite, heavy tiles, and natural stones. Its high-polymer formula ensures strong bonding and durability for indoor and outdoor use. With a smooth texture and sag resistant properties, it's perfect for large stones and vertical surfaces.

SUITABLE FOR

Materials & Areas:

- Marble
- Granite
- Heavy Tiles
- Natural Stones
- Interior and Exterior Applications
- Walls and Floors
- Residential, Commercial, and Industrial Areas

Substrate:

- Cement mortar beds
- Cement plastered surfaces
- Concrete floors
- Cement screed layers
- Cement terrazzo flooring
- Brick masonry
- AAC block masonry
- Concrete block masonry
- Waterproofing products
- Fibre cement slabs
- Heating Systems
- Thermal insulation panelling systems

TECHNICAL DETAILS

Grey Platinum Adhesive [Conforms to IS 15477:2019 Type '4TS1' ; EN 12004 C2TES1](#)

PHYSICAL PROPERTIES @ 70° F (21° C)

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	>3 hrs
Open Time	~35 mins
Adjustability	~30 mins
Final Setting Time	24 hours
Max. Bed Thickness	15 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)	1.5 N/mm ²	2.6-2.8 N/mm ²	IS 15477:2019 Annexure A Clause 5.1
Tensile Adhesion (Wet Condition 28 Days)	1 N/mm ²	2.6-2.8 N/mm ²	IS 15477:2019 Annexure A Clause 5.2
Shear Adhesion (Dry Condition 28 Days)	1.5 N/mm ²	2.6-2.8 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Heat Aging Condition 28 Days)	1 N/mm ²	1.9-2.1 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Wet Condition 28 Days)	1 N/mm ²	1.9-2.1 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Slip Resistance	<0.5 mm	0.25-0.3 mm	IS 15477:2019 Annexure E Clause 5.5
Deformability	>2.5 mm to <5 mm	3-4 mm	IS 15477:2019 Annexure F Clause 5.6

Grey Platinum Adhesive mortar conforms to IS 15477:2019 Type 4TS1

EN 12004

Parameter	Requirements	Results	Test Methods
E - Extend Open time	≥ 0.5 N/mm ² after not less than 30 min	1-1.1 N/mm ²	EN 1346
T-Slip Resistance	≤0.5 mm	0.25-0.3 mm	EN 1308
S- Transverse Deformation (S1)	≥2.5 mm-<5 mm	2.8-3.2 mm	EN 12002
Tensile Adhesion Strength (C2)	≥1 N/mm ²	2.5-2.7 N/mm ²	EN 1348 Clause 8.2
Tensile Adhesion Strength (After Water Immersion)	≥1 N/mm ²	1.5-1.6 N/mm ²	EN 1348 Clause 8.3
Tensile Adhesion Strength (Heat Ageing)	≥1 N/mm ²	1.8-2 N/mm ²	EN 1348 Clause 8.4
Tensile Adhesion Strength (Freeze & Thaw)	≥1 N/mm ²	1.8-2 N/mm ²	EN 1348 Clause 8.5

Grey Platinum Adhesive mortar conforms to EN 12004 C2TES1

INSTALLATION GUIDE FOR SAFFROKOL TILES ADHESIVE

1. Surface Preparation

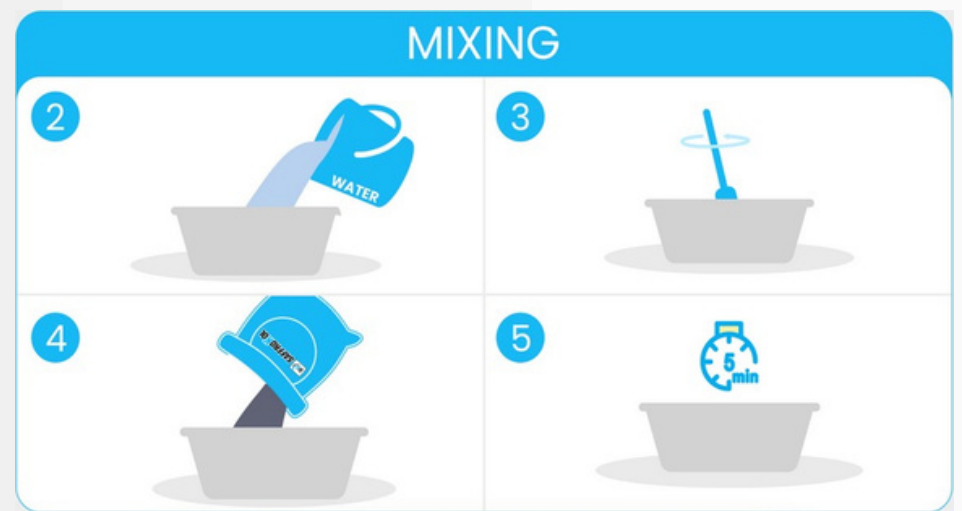
- **Surface Requirements:** The Surface should be leveled, properly cured and undamaged. And it must be dry and free from any debonding agents.
- **Highly Absorbent Surfaces:** For highly absorbent concrete surfaces, pre-wet or dampen with clean, fresh water.



2. Mixing Instructions

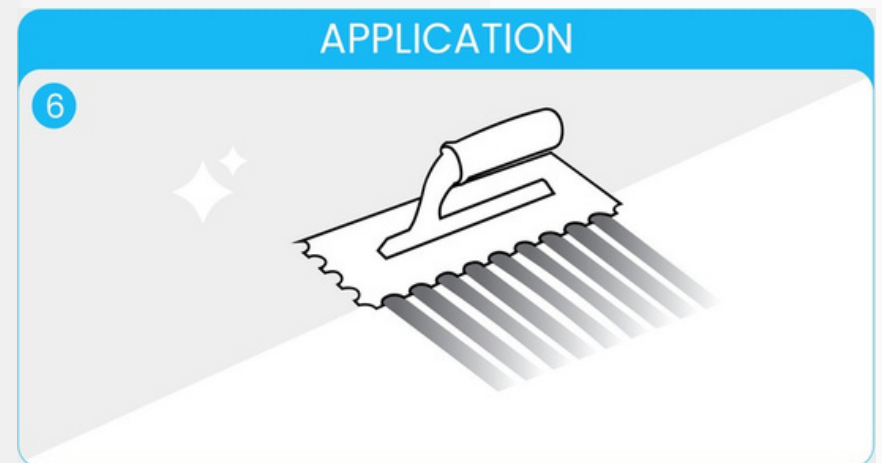
- Use 5 to 6 liters of potable water for 20kg of adhesive.
- Take the mentioned amount of water in a clean mixing container.
- Add the dry adhesive to the water (and not vice versa).
- Blend the mixture using a low speed electric mixer (less than 500 rpm) for smooth and lump free consistency.

- 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™ Grey Platinum 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.




BO: Pankaj Petrochem Consultancy LLC

Licence no. # 2428700, Shams Business Center, Sharjah Media City Freezone, Al Messaned, Sharjah (Dubai) UAE

PANKAJ PETROCHEMICAL PVT. LTD.
(AN ISO : 9001, 14001 : 2015 CERTIFIED COMPANY)

Address: Jind Road, VPO Titoli, RTK, HR, 124001

 Toll Free : 1800-202-732
Call : +91-8607650126

 info@saffrokol.com

 www.saffrokol.com

