



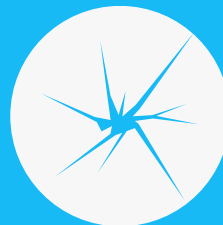
SAFFROKOL™

H-14 GEL (GREY)

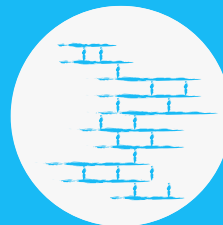
Technical Data Sheet



High Sag Resistance



No Cracking of Tiles



For walls and floors



Ideal For wet Areas



High Polymer Modified Adhesive



Easy to Use

PRODUCT DESCRIPTION

H-14 Gel Tile Adhesive is a strong, all-purpose adhesive designed for all types of tiles and natural stones. You're working on floors or walls, does not matter, this adhesive provides a secure bond that lasts. Built to withstand extreme weather conditions, it prevents debonding and cracking, promising a durable and long-lasting finish.

SUITABLE FOR

Materials & Areas:

- Vitrified Tiles
- Ceramic Tiles
- Natural Stones
- Interior and Exterior Applications
- Walls and Floors
- Wet Areas

Substrate:

- Cement mortar beds
- Cement based plaster/Concrete/ Screed / Terrazzo
- Brick/Block/ Concrete Masonry
- Tile on tile
- Cement based self leveling screed
- Waterproofing products
- Fibre cement slabs
- Heating system

TECHNICAL DETAILS

H-14 Gel (Grey) [Conforms to IS 15477:2019 Type '4TS2'; EN 12004 C2TES2](#)

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	>4 hrs
Open Time	~40 mins
Adjustability	~35 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	2.6-2.7 N/mm ²	IS 15477:2019 Annexure A Clause 5.1
Shear Adhesion (Dry Condition 28 Days)	1.5 N/mm ²	2.5-2.7 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	≥5 mm	>5 mm	IS 15477:2019 Annexure F Clause 5.6

H-14 Gel (Grey) Adhesive mortar conforms to IS 15477:2019 Type 4TS2

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)	≥5 mm	>5 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

H-14 Gel (Grey) Adhesive mortar conforms to EN 12004 C2TES2

INSTALLATION GUIDE FOR SAFFROKOL TILES ADHESIVE

1. Surface Preparation

Check that the surface should be stable (as per IS 1443-1972), level, cured, and free from damage, dust, moisture, or any substances that could prevent adhesion. For highly absorbent concrete surfaces, dampen them slightly or apply a coat of Primer A Eco to improve the adhesion.

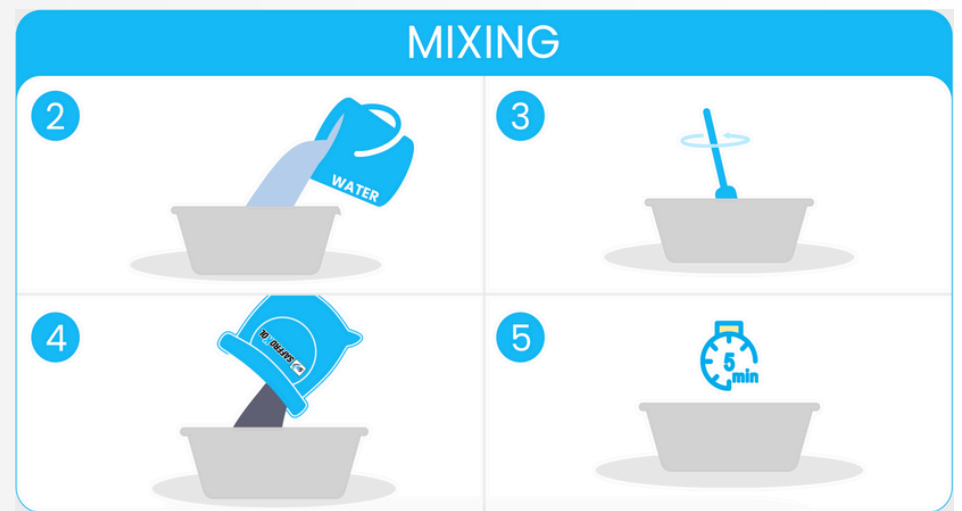


2. Mixing Instructions

- Use 5 to 6 liters of potable water for 20kg of adhesive.
- The exact amount of water may vary based on the needs of application. Adjust the mixture to get the right thickness and workability.

3. Applying the Adhesive

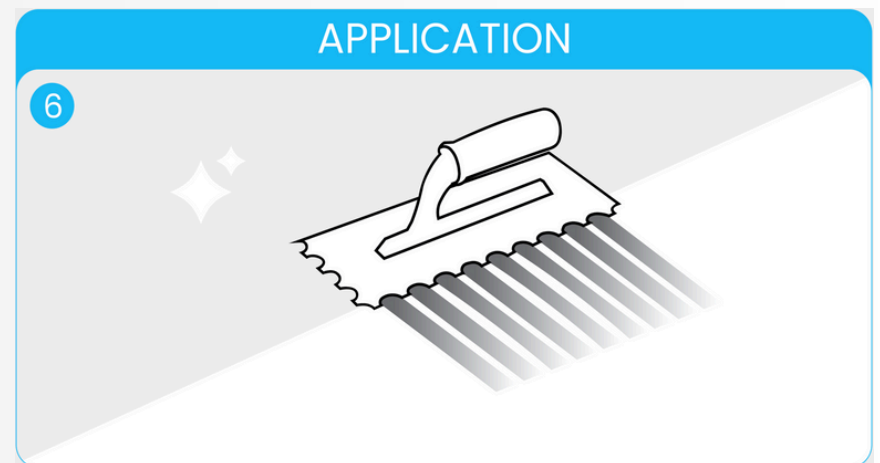
- Apply the amount of adhesive so that it can fully cover the back of the tile or stone for a good strong bond.
- For large, rectangular tiles (over 60 cm) or thin sheets, apply adhesive to both the surface and the back of the material.
- Always check that the adhesive has transferred properly for a safe and secure bond.



4. Creating Expansion Joints

To prevent cracking, create expansion joints:

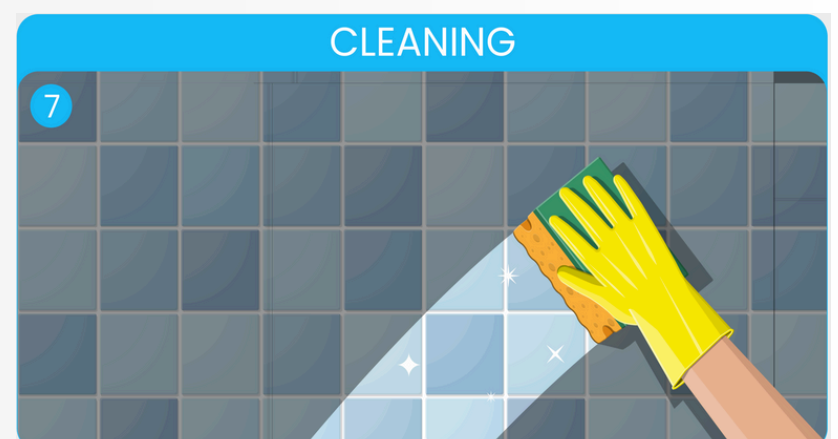
- Every 10 m² for outdoor applications
- Every 25 m² for indoor applications
- Every 8 meters for long, narrow areas



Check for all structural and perimeter joints in the substrate are maintained.

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

A 20 kg bag covers approximately 45–55 sq. ft. with a 3mm adhesive layer when applied using a 6mm x 6mm square-notched trowel.

Note: Actual coverage may vary depending on the surface's smoothness, levelness, and the thickness of the adhesive applied.

SHELF LIFE

H-14 Gel Tile Adhesive comes in factory-sealed bags with a shelf life of 12 months when stored in a cool, dry place. However, factors like temperature, humidity, and water exposure at different sites may affect its performance.

SAFETY GUIDELINES

- Keep this product out of reach of children. Avoid direct contact with your eyes and skin. If it gets into your eyes, rinse thoroughly with water and get medical help if needed.
- Always wear protective gloves and safety glasses while using this product. Do not ingest. If swallowed, do not induce vomiting—seek medical attention immediately.
- Store in a cool, dry place, and make sure to tightly close the container after each use to keep the product safe and fresh completely.

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**

