



SAFFROKOL™

WHITE ZIG ZAG

Technical Data Sheet



High sag Resistance



UV and Moisture Resistant



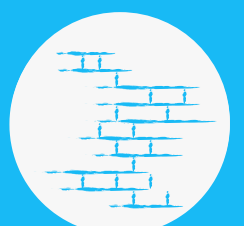
Ideal for Glass Mosaic Tiles



Smooth, workable consistency



Low VOC (ecofriendly)



For walls and floors

PRODUCT DESCRIPTION

Saffrokol™ White Zig Zag Adhesive is a high-quality white adhesive designed for vitrified tiles, ceramic tiles and glass mosaics. Its polymer-modified formula provides strong adhesion, making it ideal for indoor and outdoor use. With sag resistance, UV and moisture protection, and a smooth application, it's perfect for walls, floors, and wet areas.

SUITABLE FOR

Materials & Areas:

- Vitrified Tiles
- Ceramic Tiles
- Glass Mosaic Tiles
- Interior and Exterior Applications
- Walls and Floors
- Wet 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
- Waterproofing products
- Fibre cement slabs

TECHNICAL DETAILS

White Zig Zag Adhesive [Conforms to IS 15477:2019 Type '3T'; EN 12004 C2TE](#)

PHYSICAL PROPERTIES @ 70° F (21° C)

Tile laying adhesive mixed with water

Parameter	Results
Colour	White
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	~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	1.6-1.7 N/mm ²	IS 15477:2019 Annexure A Clause 5.1
Tensile Adhesion (Wet Condition 28 Days)	1 N/mm ²	1.15-1.25 N/mm ²	IS 15477:2019 Annexure A Clause 5.2
Shear Adhesion (Dry Condition 28 Days)	1.25 N/mm ²	1.55-1.65 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Heat Aging Condition 28 Days)	1 N/mm ²	1.15-1.25 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Wet Condition 28 Days)	1 N/mm ²	1.15-1.25 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Slip Resistance	<0.5 mm	0.2-0.3 mm	IS 15477:2019 Annexure E Clause 5.5

EN 12004

Parameter	Requirements	Results	Test Methods
E - Extend Open time	≥ 0.5 N/mm ² after not less than 30 min	0.85-1 N/mm ²	EN 1346
T-Slip Resistance	≤0.5 mm	0.3-0.5 mm	EN 1308
Tensile Adhesion Strength (C2)	≥1 N/mm ²	1.3-1.5 N/mm ²	EN 1348 Clause 8.2
Tensile Adhesion Strength (After Water Immersion)	≥1 N/mm ²	1.3-1.5 N/mm ²	EN 1348 Clause 8.3
Tensile Adhesion Strength (Heat Ageing)	≥1 N/mm ²	1.1-1.2 N/mm ²	EN 1348 Clause 8.4
Tensile Adhesion Strength (Freeze & Thaw)	≥1 N/mm ²	1.3-1.55 N/mm ²	EN 1348 Clause 8.5

White Zig Zag Adhesive mortar conforms to EN 12004 C2TE

INSTALLATION GUIDE FOR SAFFROKOL TILES ADHESIVE

1. Surface Preparation

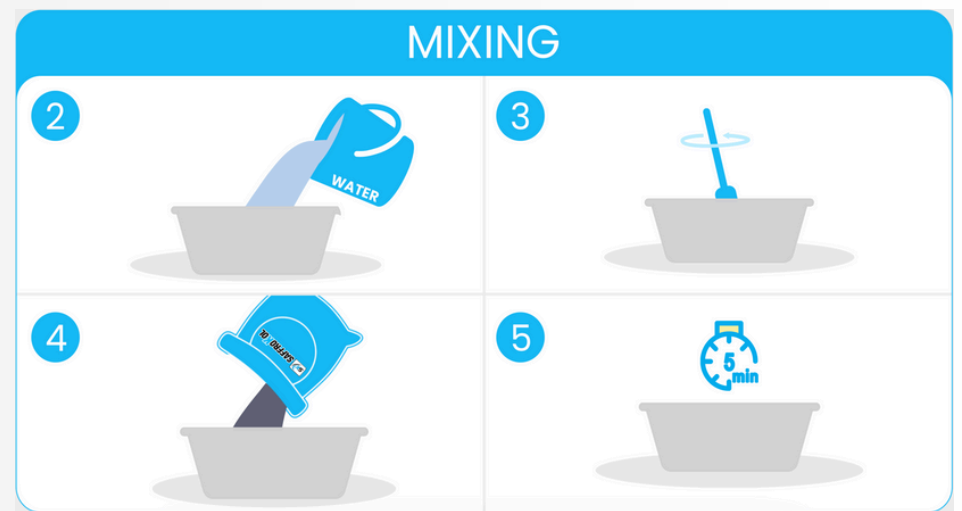
- **Surface Requirements:** The Surface should be leveled, properly cured and undamaged. And it must be dry and free from any debonding agents.
- **Highly Absorbent Surfaces:** For highly absorbent concrete surfaces, pre-wet or dampen with clean, fresh water.



2. Mixing Instructions

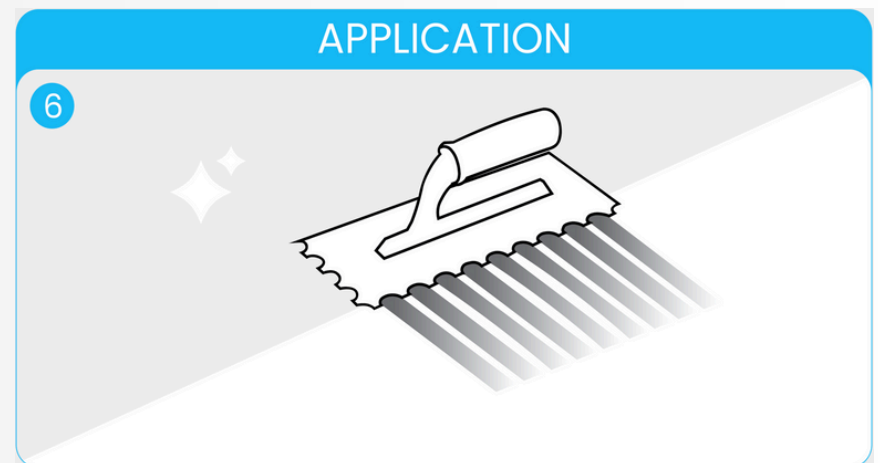
- Use 5 to 6 liters of potable water for 20kg of adhesive.
- Take the mentioned amount of water in a clean mixing container.
- Add the dry adhesive to the water (and not vice versa).
- Blend the mixture using a low speed electric mixer (less than 500 rpm) for smooth and lump free consistency.
- Mix for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

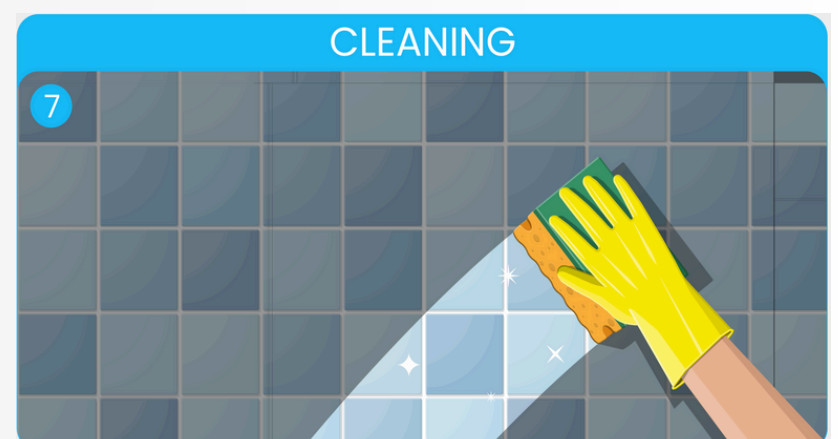


4. Creating Expansion Joints

- 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™ White Zig Zag 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 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

