



**SAFFROKOL™**



## SAFFROFLEX 2K

### Technical Data Sheet



Strong & Durable



Temperature Resistant



Resistant to chemicals



Waterproof



Low VOC (ecofriendly)



Easy to Mix and maintain

## PRODUCT DESCRIPTION

Saffroflex 2K is a high-performance, two-component adhesive with a polyurethane base, specially formulated for securely fixing all types of tiles and stones onto a wide range of surfaces, including metal and drywall. Its ability to adapt feature makes it suitable for both indoor and outdoor wall and floor applications.

## FEATURES AND BENEFITS

- Ideal for tile and stone cladding on high-rise buildings.
- Compatible with all types of tiles and stones, including glass and metal tiles.
- Superior bond strength
- Resistance to chemicals.

## APPLICATION AREAS

- Can be applied to a variety of surfaces, including wood, metal, rubber, PVC, and more.
- Works for both indoor and outdoor walls and floors.
- Suitable for heated subfloors and areas exposed to temperature fluctuations, including freezing conditions.
- Perfect for tiles and stones that may expand due to water absorption or thermal changes.

## TECHNICAL DETAILS

Saffroflex 2k Conforms to IS 15477:2019 Type '5TS2' ; EN 12004 R2T; ISO 13007

## PHYSICAL PROPERTIES @ 70° F (21° C)

Parameter	Results
Colour	White (after mixing)
Mixing Ratio (Part A : Part B)	4:1
Mixed Density	1550-1600 Kg/m <sup>3</sup>
Consistency	Very Viscose
Deformability	Highly Deformable
Pot Life	40 Minutes
Open Time	20 Minutes
Adjustability	20 Minutes
Vertical Slip/Sag	≤0.5mm
Resistance to Temperature	-40°C to 100°C
Final Setting Time	12 Hours

## PERFORMANCE PROPERTIES

### IS 15477:2019

Parameter	Requirements	Results	Test Methods
Tensile Adhesion (Dry Condition 28 Days)	2.00 N/mm <sup>2</sup>	3.50-4.00 N/mm <sup>2</sup>	IS 15477:2019 Annexure A Clause 5.1
Shear Adhesion (Dry Condition 28 Days)	6.00 N/mm <sup>2</sup>	6.50-7.50 N/mm <sup>2</sup>	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Heat Aging Condition 28 Days)	3.00 N/mm <sup>2</sup>	3.50-4.50 N/mm <sup>2</sup>	IS 15477:2019 Annexure B Clause 5.2
Deformability	>5.0 mm	8-10 mm	IS 15477:2019 Annexure B Clause 5.6

Saffroflex 2k conforms to IS 15477:2019 Type 5TS2

## EN 13007 & EN 12004

Parameter	Requirements	Results	Test Methods
Initial Shear Adhesion Strength	≥ 2.0 N/mm <sup>2</sup>	4.5-5.5 N/mm <sup>2</sup>	ISO 13007-2:2010 Clause 4.3.4
Shear Adhesion Strength (After Water Immersion)	≥ 2.0 N/mm <sup>2</sup>	4.0-5.0 N/mm <sup>2</sup>	ISO 13007-2:2010 Clause 4.3.5
Shear Adhesion Strength (After Thermal Shock)	≥ 2.0 N/mm <sup>2</sup>	4.0-5.0 N/mm <sup>2</sup>	ISO 13007-2:2010 Clause 4.3.8
Tensile Adhesion Open Time (60 Minutes)	≥ 1.0 N/mm <sup>2</sup>	1.3-1.6 N/mm <sup>2</sup>	ISO 13007-2:2010 Clause 4.4
T-Slip Resistance	≤ 0.5mm	0.20-0.30 mm	ISO 13007-2:2010 Clause 4.2

Saffroflex 2k conforms to EN 12004 R2T

## INSTALLATION GUIDE FOR SAFFROFLEX 2K

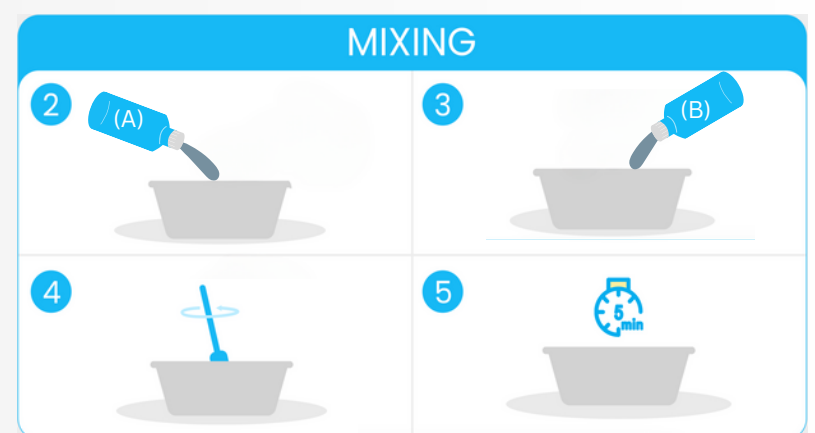
### 1. Surface Preparation

- The surface should be strong, clean, and free from dirt, oil, grease, paint, sealers, curing compounds, or any of particles.
- Use a high-pressure water jet or a suitable method to remove dust and weak layers. Maintain surface temperature between 15°C and 40°C; cool down with water if needed.
- Smooth out rough or uneven concrete; screeds and blockwork should be fully cured to prevent cracks.
- Saturate cementitious surfaces with water, remove excess, and bring to a "touch-dry" condition before applying tile adhesive.



### 2. Mixing Instructions

- Combine 9 parts of Component A with 1 part of Component B by weight (or 5:1 by volume) in a suitable container.
- Mix for 3-5 minutes using a slow-speed stirrer (100 RPM) or another suitable method.
- Wash tools immediately with water before the adhesive hardens.
- Do not add water to the mix

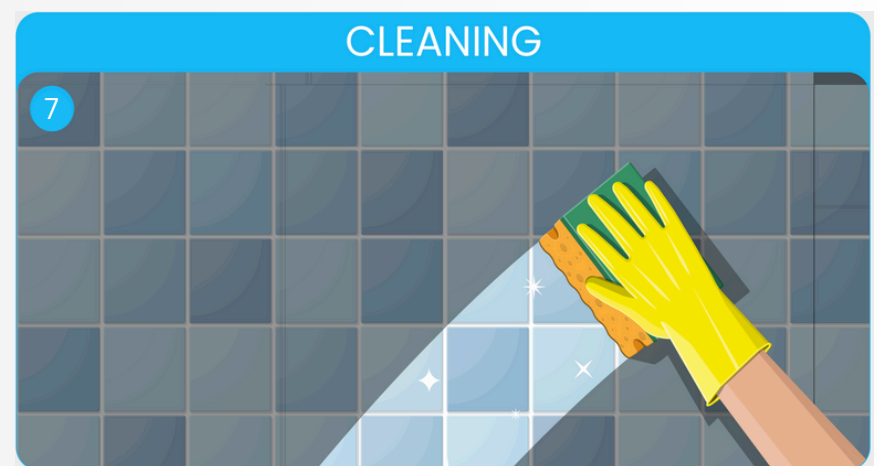


### 3. How To Apply-

- Apply adhesive over a maximum of 1m<sup>2</sup> at a time or only as much as can be tiled within 20 minutes.
- Hot, dry, or windy conditions and highly absorbent surfaces can shorten open time; check regularly to check that the adhesive remains workable. If it hardens, remove it and reapply fresh adhesive.
- The adhesive layer should be void-free, especially in wet areas, outdoor spaces, and floors. Also, you need to press the tiles firmly for proper bonding.

### 4. Cleaning

- Wipe off any extra adhesive from the tiles and grout lines right away using a damp sponge or cloth.



### 5. Curing

- Wait 24 hours after tiling before starting the grouting process. For the best results, use a suitable grout from the Saffrokol range of cement-based or epoxy grouts.



## COVERAGE

This product provides a coverage of 8–10 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

Saffroflex 2K lasts up to 12 months if stored in a cool, dry place. However, factors like temperature, humidity, and site conditions can affect its shelf life, so this timeframe is just a general guideline.

## LIMITATIONS

- The product isn't a replacement for a waterproofing membrane. If you need waterproofing, use the right product from waterproofing range.
- It's also not recommended for soft, polished marble or delicate glazed tiles.

## SAFETY PRECAUTIONS

- Keep out of reach of children.
- Always wear protective clothing, gloves, and eye protection when handling.
- If grout gets on your skin, rinse thoroughly with clean water.
- If it gets into your eyes, flush with plenty of water and get medical help right away.
- For professional use only.

## KEY NOTES

- The surfaces take about 10 days to reach full stain resistance. During this time, keep them away from acids and harsh cleaners.
- Avoid using it in areas with heavy machinery, vehicle traffic, or high foot traffic.
- When cleaning, regularly change the water, cloth, or sponge to prevent grout buildup.
- For showers and pools, wait at least 7 days after grouting before exposing the surface to water.
- Make sure the tiles or stones are compatible with the grout. Always check the tile/stone manufacturer's guidelines and do 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 further assistance, call us



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