





TO2 & TO9 NON-SKID ADHESIVE

ADHESIVE FOR CERAMIC, VITRIFIED
TILES, NATURAL STONES AND FOR
TILE-ON-TILE APPLICATION





For Internal Floor & Wall



Tile on tile Application



For Tiles & Natural Stone



Non-Slip Adhesive







Low VOC



Available in 5 kg, 20 kg & 30 kg pack. Available in 20 kg & 50 kg pack.

White



NON-SKID ADHESIVE

DESCRIPTION

Roff Non-Skid Adhesive is a polymer modified, thin-set tile adhesive for fixing ceramic, semi-vitreous tile, vitrified tiles & natural stones of regular size. It is suitable for both vertical and horizontal surfaces, over the cementitious substrate for indoor application, in dry as well as wet areas. It is also recommended for Tile on Tile Application.

STANDARD COMPLIANCE/ SPECIFICATION

Roff Non-Skid Adhesive complies to Type 2 'T' as per "IS 15477: 2019 - adhesives for use with ceramic, mosaic and stone tiles - specification."

Also, Roff Non-Skid Adhesive conforms to class C1TE as per EN 12004:2017/ ISO 13007 - a cementitious (C) Normal Adhesive (1) slip resistant (T) Extended Open Time (E) tile adhesive.

AREA OF USE

Material to be fixed	On surface/ substrate	Area of application
All types of ceramic tile, terracotta, pavers, brick vitrified tiles, glass mosaic tiles, large format tiles, precast terrazzo, marble & natural stones, low thickness slabs, class Ia, Ib, IIa, IIb & III tiles as per IS 13712: 2006.	Cement-based screeds & mortars, cement-based plasters/ renders, concrete surfaces, bricks, AAC blocks, existing tiles & stones, other cement-based surfaces.	Flooring and walls, for internal applications & external shaded area, external area', dry & wet area, new construction & renovation, domestic applications, commercial applications.

FEATURES AND ADVANTAGES

- · Easy to use just add water on site, ready to use.
- Ideal product for tile-on-tile applications on floor.
- Sag resistant formula: provides hassle-free application on vertical walls.
- Water resistant suitable for wet areas.
- Good adhesive bond strength & bonds to various cement-based substrates.
- · Low VOC for healthy living.

LIMITATIONS

- Do not apply directly to gypsum plaster or boards, fibre cement boards or other drywall partitions, plywood, chipboard, particleboard, decorative laminates or resilient flooring, metal, plastic, deformable surfaces or subject to vibrations. Use Roff Extrofix/ Masterfix as per application.
- Adhesives for ceramic tile, bricks and stone are not designed as replacements for waterproof coating.
 Use Roff waterproofing coating before tiling for wet area.
- Do not use for fixing artificial/ nano/ engineered stone/ composites/ metal tile. Use Masterfix for the same.



NON-SKID ADHESIVE

TECHNICAL INFORMATION

APPLICATION PROPERTIES

Testing Properties	Test Results	
Mixing Ratio (Powder : Water)	1: 0.25 - 0.28 (Grey) / 1: 0.26 - 0.29 (White) by weight	
Mixed Density	1.7 - 1.85 kg/ litre	
Open Time	Min. 30 minutes	
Adjustability	Approx. 35 minutes	
Pot Life	Approx. 120 minutes	
Sag/Slip	≤ 0.5 mm	
VOC Content (As per EPA 24 method)	< 1.2 gm/ kg	
Application Temperature (Substrates and Materials)	5°C to 35°C	
Adhesive Thickness	3 - 12 mm	
Setting/ Trafficable/ Grouting Time	24 hours	

PERFORMANCE PROPERTIES AS PER ISO 13007 AND EN 12004 (C1TE)

Testing Properties	Requirement	Test Results
a) Tensile Adhesion Strength, after 28 days	≥ 0.5 N/mm²	≥ 0.5 N/mm²
b) Tensile adhesion strength after water immersion	≥ 0.5 N/mm²	≥ 0.5 N/mm²
c) Tensile adhesion strength after heat ageing	≥ 0.5 N/mm²	≥ 0.5 N/mm²
d) Tensile adhesion strength after freeze-thaw cycle	≥ 0.5 N/mm²	≥ 0.5 N/mm²
e) Slip resistance	≤ 0.5 mm	≤ 0.5 mm
f) Extended open time (at 30 minutes)	≥ 0.5 N/mm²	≥ 0.5 N/mm²

PERFORMANCE PROPERTIES AS PER IS 15477: 2019 (TYPE 2 'T')

Testing Properties	Requirement	Test Results
a) tensile adhesion at dry condition, after 28 days	≥ 1.0 N/mm²	≥ 1.0 N/mm²
b) Tensile Adhesion at Wet condition	≥ 1.0 N/mm²	≥ 1.0 N/mm²
c) Shear Adhesion at Dry Condition	≥ 1.25 N/mm²	≥ 1.25 N/mm²
d) Shear Adhesion at Wet condition	≥1N/mm²	≥1N/mm²
e) Shear Adhesion at Heat Ageing	≥ 1 N/mm²	≥ 1 N/mm²
f) Slip resistance	≤ 0.5 mm	≤ 0.5 mm

Note: Test results are indicative as per testing method specified in standard. Test results may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation methods and site conditions.



APPLICATION INSTRUCTIONS



SUBSTRATE PREPARATION

- The substrate must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.
- All surfaces must be plumb and true to within 6 mm in 10 ft (3m).
- Dry, dusty surfaces should be dampened with water & excess water should be swept off.
- New concrete slabs shall be damp cured and 28 days old before application which will reduce the shrinkage from tile fixing surface.
- Expansion joints to be provided & filled with suitable sealant.
- Do not cover expansion joints with thin set tile adhesive/ tile.

MIXING

- For Grey, add 2.9 3.0 parts of powder to 1 part of water or 5.0 – 5.6 litres for 20 kg powder in a clean mixing vessel.
- For White, add 2.9 3.0 parts of powder to 1 part of water or 5.2 - 5.8 litres for 20 kg powder in a clean mixing vessel.
- Adjust the water as per desired consistency.
- Mix with a suitable mechanical stirrer or slow speed drills (50 - 100 rpm) until a lump free homogeneous paste is obtained.
- Always mix required quantity, which can be consumed within pot life.
- Leave mixture for 5 minutes before use.
- · No further water should be added.

NON-SKID ADHESIVE

APPLICATION

























- Apply adhesive to the substrate with the flat side of the trowel.
- · Comb on additional adhesive with the notched side.
- Use the proper sized notched trowel to ensure full bedding of the tile.
- Tiles must be fixed within 15-20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.
- Check the adhesive ribs periodically and if a skin has formed, remove the dried adhesive and apply fresh adhesive.
- Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile and beat in using rubber mallet to imbed tile and adjust level.
- · Leave no voids behind tiles.
- For large size tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact.
- Use suitable support along with adhesive for fixing tiles on vertical surfaces.



- For highly absorbent natural stones which may form a
 wet patch when adhesive is used, it is recommended to
 use suitable Roff Impregnating sealer on all sides. Please
 refer Technical Data Sheets of product intended for use
 for specific instructions of use
- Leave adequate joints between individual wall and floor tiles using Roff spacers. The joint width shall be as per the recommendation of architect / engineer.
- Clean off surplus adhesive from the tile face and between joints.
- Clean tools and tile work with water while adhesive is fresh.

PRECAUTIONS & NOTE

- · Always add powder to water.
- · Do not add excess water than recommended.
- Never add sand & cement at site.
- Do not use on wet screed. Surface must be fully cured.
- Do not use the adhesive to correct surface irregularities greater than 15 mm.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- Leave gap between the tile & fill gaps with Roff tile grout.
- Designer/ applicator must evaluate the use of an additional mechanical fastening system for extra security for high height (such as steel hooks fastened to the substrate).

NON-SKID ADHESIVE

COVERAGE

- Approx. 4.8 5.0 m²/ 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch).
- Approx. 7.0 7.5 m²/ 30 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch).
- *Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness.

PACKAGING

- Grey 5 kg, 20 kg & 30 kg
- White 20 kg & 50 kg

SHELF LIFE

12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

GROUTING

Grouting should be carried out after 24 hours of tiling.

Use the appropriate grouting material from Roff range of cementitious and epoxy grouts.

SAFETY PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only.

For more details please refer the relevant Material Safety Data Sheet, available on request.





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