



TILE & STONE FIXING EXPERT



T20 & T21 EXTROFIX ULTRA ADHESIVE

HIGH STRENGTH, FLEXIBLE
ADHESIVE FOR EXTERNAL TILES &
STONES AT ANY HEIGHT



For Internal & External Floor & Wall



For Vibration Area



Extended Open Time



Superior Bond Strength



Highly Flexible



Low VOC



Grey



White



Available in 20 kg pack.



EXTROFIX ULTRA ADHESIVE

DESCRIPTION

Roff Extrofix Ultra Adhesive is a high polymer modified & highly flexible adhesive with enhanced properties of slip resistant, extended open time & excellent bond strength which is necessary for fixing large format tiles/ natural stones & slim tiles on vertical & horizontal surface for indoor as well as outdoor application especially in external conditions & on substrates subject to deformations/ vibrations.

STANDARD COMPLIANCE/ SPECIFICATION

Roff Extrofix Ultra Adhesive complies to Type 4 'T S1' as per "IS 15477: 2019 - Adhesives for use with ceramic, mosaic and stone tiles - Specification."

Also, Roff Extrofix Ultra Adhesive conforms to class C2TES1 as per EN 12004:2017/ ISO 13007 - a cementitious (C) improved performance (2) slip resistant (T) deformable (S1) with 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, large thin/ slim tiles, low thickness slabs.	Cement-based screeds/ bed, gypsum & cement based asters/ renders, concrete surfaces & bricks, existing tiles & stones, other cement-based surface, waterproofing products, drywall like cement /bison/ gypsum/ fibre boards etc*, Thermal insulation panel.	Floor and walls, internal & external area, saunas, spa, fountains & swimming pools etc., terraces & balconies, podium decks & facades, window/ door frame, vibrational area, domestic applications, commercial applications.

*For all exterior tile/ stone fixing & drywall tile installation, consult with Roff Technical Team.

FEATURES AND ADVANTAGES

- Highly Polymer modified – excellent bond strength at different conditions.
- Extended open time – suitable for large format & external condition.
- Sag Resistant formula – for hassle-free application on vertical walls.
- Water & shock resistant – suitable for wet areas & commercial floor too.
- Sustains heat ageing – Idea for external & high temperature applications.
- Highly deformable adhesive – sustains substrate vibration.
- Low VOC – for healthy living.

LIMITATIONS

- Do not apply directly to other drywall partitions of plywood & wood derivatives, decorative laminates, metal, plastic, highly deformable surfaces subject to vibrations. Use Master-fix 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 Master-Fix for the same/ consult with technical team.



EXTROFIX ULTRA ADHESIVE

TECHNICAL INFORMATION

APPLICATION PROPERTIES

Testing Properties	Test Results
Mixing Ratio (Powder : Water)	Grey - 1 : 0.28 by weight White - 1 : 0.32 by weight
Mixed Density	1.6 -1.7 kg/ litre
Open time	Min. 40 minutes
Adjustability	Approx. 40 minutes
Pot life	Min. 120 minutes
VOC content	< 0.2 gm/ liter
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 (C2TES1)

Testing Properties	Requirement	Test Results
a) Tensile Adhesion Strength, after 28 days	$\geq 1.0 \text{ N/mm}^2$	$\geq 1.6 \text{ N/mm}^2$
b) Tensile adhesion strength after water immersion	$\geq 1.0 \text{ N/mm}^2$	$\geq 1.25 \text{ N/mm}^2$
c) Tensile adhesion strength after heat ageing	$\geq 1.0 \text{ N/mm}^2$	$\geq 1.5 \text{ N/mm}^2$
d) Tensile adhesion strength after freeze-thaw cycle	$\geq 1.0 \text{ N/mm}^2$	$\geq 1.2 \text{ N/mm}^2$
e) Slip resistance (T)	$\leq 0.5 \text{ mm}$	$\leq 0.3 \text{ mm}$
f) Extended open time at 30 minutes (E)	$\geq 0.5 \text{ N/mm}^2$	$\geq 1.0 \text{ N/mm}^2$
g) Transverse deformation (S1)	$\geq 2.5 \text{ mm}, < 5\text{mm}$	$\geq 3.4 \text{ mm}$

PERFORMANCE PROPERTIES AS PER IS 15477: 2019 (TYPE 4 'T S1')

Testing Properties	Requirement	Test Results
a) Tensile Adhesion at Dry Condition, after 28 days	$\geq 1.5 \text{ N/mm}^2$	$\geq 1.5 \text{ N/mm}^2$
b) Tensile Adhesion at Wet condition	$\geq 1 \text{ N/mm}^2$	$\geq 1.2 \text{ N/mm}^2$
c) Shear Adhesion at Dry Condition	$\geq 1.5 \text{ N/mm}^2$	$\geq 1.6 \text{ N/mm}^2$
d) Shear Adhesion at Wet condition	$\geq 1 \text{ N/mm}^2$	$\geq 1.4 \text{ N/mm}^2$
e) Shear Adhesion at Heat Ageing	$\geq 1 \text{ N/mm}^2$	$\geq 1.6 \text{ N/mm}^2$
f) Deformability (S1)	$\geq 2.5 \text{ mm}, < 5 \text{ mm}$	$\geq 3.4 \text{ mm}$

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.



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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

- Add 2.5 – 3 parts of powder to 1 part of water or 5.5 – 6.5 litre water 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.

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 30 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
- For highly absorbent surfaces like drywalls, consult with Roff technical team.
- 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.



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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.
- Designer/ applicator must evaluate the use of an additional mechanical fastening system for extra security for more than 3m height (such as steel hooks fastened to the substrate).

COVERAGE

- Approx. 5 - 6 m²/ 20 Kg Bag at 3 mm thickness (using 6 mm x 6 mm notch).
- Approx. 2.5 - 3 m²/ 20 kg Bag at 6 mm thickness (using 12 mm x 12 mm notch).
- Approx. 1.2 kg/ m² per mm of thickness

*Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness.

PACKAGING

20 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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