



Tile Adhesive – Ultima Pro

IS 15477:2019 Type 4 'T' S1 • EN 12004 C2TES1

All-purpose, deformable adhesive engineered for extreme conditions and every tile format.

Easy to apply

Strong bond

Water resistant

Fast dry

Pack Size: 20 kg

ISO 9001:2015 Certified Manufacturing

PRODUCT DESCRIPTION

An all-purpose cementitious adhesive that is extremely versatile and multi-functional, engineered for maximum strength when fixing every format of tile and natural stone on all types of floor and vertical surfaces. Its deformable formulation sustains extreme weather conditions, ensuring debonding and cracking are never a problem.

SUITABLE FOR

Material & Area

- Large-format and glass mosaic tiles & stones
- Internal and external application, horizontal and vertical surfaces
- Tiles with porosity $\leq 3\%$
- Plaster board and fibre-cement sheets

Substrate

- Cement mortar beds
- Cement-based plaster / concrete / screed / terrazzo
- Brick / block / concrete masonry
- Tile on tile
- Cement-based self-levelling screed
- Waterproofing products
- Fibre cement slabs
- Heating systems
- Thermal insulation panelling systems

TECHNICAL DATA

Conforms to IS 15477:2019 Type 4 'T' S1 · EN 12004 C2TES1

PHYSICAL PROPERTIES @ 70°F (21°C)

Tile laying adhesive mixed with water

PARAMETERS	RESULTS
Colour	Grey / White
Mixing Ratio (Powder to Water)	3.5 : 1
Bulk Density	1.3 – 1.5 gm/cc
Mixing Density	1.7 – 1.9 gm/cc
Pot Life	> 3 hours
Open Time	> 30 minutes
Adjustability	~ 30 minutes
Final Setting Time	24 hours
Max. Bed Thickness	15 mm

PARAMETERS	RESULTS
Time to Light Foot Traffic	16 – 24 hours
Ready for Grouting	24 hours
Ready for Use	14 days

PERFORMANCE PROPERTIES

Tile laying adhesive mixed with water

IS 15477:2019

PARAMETER	REQUIREMENT	RESULT	TEST METHOD
Tensile Adhesion (Dry Condition, 28 Days)	1.5 N/mm ²	2.6 – 2.8 N/mm ²	Annexure A, Clause 5.1
Tensile Adhesion (Wet Condition, 28 Days)	1 N/mm ²	2.6 – 2.7 N/mm ²	Annexure A, Clause 5.1
Shear Adhesion (Dry Condition, 28 Days)	1.5 N/mm ²	2.5 – 2.7 N/mm ²	Annexure B, Clause 5.2
Shear Adhesion (Heat Ageing Condition, 28 Days)	1 N/mm ²	1.9 – 2.1 N/mm ²	Annexure B, Clause 5.2
Shear Adhesion (Wet Condition, 28 Days)	1 N/mm ²	1.9 – 2.1 N/mm ²	Annexure B, Clause 5.2
Slip Resistance	< 0.5 mm	0.15 – 0.2 mm	Annexure E, Clause 5.5
Deformability	> 2.5 mm to < 5 mm	2.5 – 4 mm	Annexure F, Clause 5.6

Ultima Pro adhesive mortar conforms to IS 15477:2019 Type 4T S1.

EN 12004

PARAMETER	REQUIREMENT	RESULT	TEST METHOD
E – Extended 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	0.3 – 0.5 mm	EN 1308
S1 – Transverse Deformation	≥ 2.5 mm – < 5 mm	2.8 – 3.2 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

Ultima Pro adhesive mortar conforms to EN 12004 C2TES1 / ISO 13007.

APPLICATION PROCEDURE

01

Surface Preparation

- All surfaces must conform to the dimensional stability requirements outlined in IS 1443-2018.
- Surfaces should be level, properly cured, undamaged, compact, rigid, resistant, dry, free from any debonding agents, and protected against damp rising.
- Pre-wet or dampen highly absorbent concrete surface with good quality fresh water.

02

Mixing

- Use 5-6 litres of potable water for every 20 kg of adhesive.
- Pour the minimum recommended amount of potable water into a clean mixing container, then gradually add dry mix product to the water (not vice versa) while continuously mixing with a low-speed electric single-paddle (spiral) mixer at a speed of <500 rpm.
- Mix thoroughly for 2-3 minutes until a uniformly coloured, smooth mixture is achieved. Allow the mixed product to mature for 4-5 minutes without stirring, then remix for 15 seconds just before using.
- Avoid over-mixing to minimise air entrainment.

03

Application

- Apply the adhesive with the flat side of the trowel using a scraping motion, then apply additional mortar with the notched edge of the trowel.
- For large-size tiles with sides greater than 2 feet, apply additional adhesive to the back of the tile with the flat side of the trowel.
- Occasionally inspect that tiles are properly stuck; if the adhesive is non-sticky, remove and replace with fresh adhesive, then tap the tile with a rubber mallet to fully bed it.
- Create elastic expansion joints: 5 mm at every 10 m² for external applications, 3 mm at every 25 m² for internal applications, and 3 mm every 8 m in long, narrow runs. Always respect structural, fractionizing and perimeter joints.

04

Cleaning

- Clean any excess adhesive from the tile surface and grout lines immediately with a damp sponge or cloth.

05

Grouting

- Carry out grouting after 24 hours of tiling, using an appropriate cementitious or epoxy grout from the Aspocrete range.

COVERAGE

55 – 60 sq.ft per 20 kg bag at 3 mm bed thickness, using a 6mm x 6mm square-notched trowel.

SHELF LIFE

12 months from date of manufacture, if stored in a cool, dry place in original unopened packaging.

LIMITATIONS

Adhesives and grouts for tiles are not replacements for waterproof membranes. Where a waterproof membrane is required, use an Aspocrete waterproofing product, or any other suitable waterproofing product available in the market.

SAFETY PRECAUTIONS

- Keep out of reach of children.
- Wear suitable protective clothing, gloves, and eye/face protection.
- After contact with the skin, wash immediately with plenty of clean water.
- In case of eye contact, rinse immediately with plenty of clean water and seek medical advice.

IMPORTANT NOTES

- Always add powder to water, not water to powder.
- Do not add excess water beyond the recommended quantity.
- Do not add extra cement or sand to the adhesive, as it can disturb the product's intended formulation and compromise performance.
- Do not use on wet screed — the surface must be fully cured (28 days).
- Do not use the adhesive to correct surface irregularities greater than 12 mm (may extend to 15 mm in limited extent).
- For heavy stone or large tiles at more than 3 m height, the applicator must evaluate an additional mechanical fastening system (such as steel hooks fastened to the substrate).
- Protect freshly laid tiles from direct rainfall and foot traffic for at least 24 hours.
- Leave a gap between tiles using spacers and fill gaps with Aspocrete tile grout.
- It is mandatory to use an appropriately sized notched trowel to achieve the required adhesive thickness.
- It is advisable to prime highly absorbent substrates or tile/stone backs with a suitable bonding primer before application.
- Do not use on deformable substrates or substrates subject to vibration.



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Specifications may be modified without prior notice. The displayed results are representative and based on the testing procedures employed. Real-world performance will be influenced by installation technique and on-site conditions.