



K04

- Highly polymer-modified
- Thicknesses up to 12 mm
- For internal and external use
- For balconies and terraces
- No sag
- Prolonged workability
- Adjustable
- Sustains heat ageing
- For fixing stones
- Ideal for waterbodies (e.g.: fountains, swimming pools etc.)
- Suitable for full body vitrified tiles

DESCRIPTION:

KONMENT K04 Tile Adhesive is a highly polymer modified, thin-set tile adhesive for fixing for all type of tiles, mosaics and natural stones, on a variety of surfaces, for both vertical and horizontal application, in dry as well as wet areas for indoor as well as outdoor application. It can be used to fix large size of tile in commercial area as it accommodates shocks due to heavy traffic.

STANDARD COMPLIANCE/ SPECIFICATION:

KONMENT K04 Adhesive complies to Type 3 'T' as per "IS 15477: 2019 - Adhesives for use with ceramic, vitrified tiles, mosaic and Stone tiles - Specification."

Also, KONMENT K04 Adhesive conforms to class C2TE as per EN 12004 : 2017/ ISO 13007 - a cementitious (C) improved Performance (2) slip resistant (T) with extended open time (E) tile adhesive.



PACKAGING

- Grey – 20 kg & 40 kg
- White – 20 kg & 40 kg

Certificates and marks



AREA OF USE

Material to be fixed	On surface/ substrate	Area of application
This adhesive is suitable mainly for tiles and stone tiles on exterior wall substrates like plaster or concrete. It is suitable for tiles like ceramic, clay tiles, basalt tiles, vitrified, glass mosaic tiles and porcelain tiles and all natural stone tiles.	Cement-based screeds/ bed, gypsum & cement based plasters/ renders, concrete surfaces & bricks, existing tiles & stones, other cement-based surface, waterproofing products, drywall like cement /bison/ gypsum boards* .	Floor and walls, for internal area, for external area* , dry & wet area like saunas, spa, fountains, swimming pools etc., Terraces & balconies, domestic applications, commercial applications.

FEATURES AND ADVANTAGES

- Easy to use - just add water on site, ready to use.
- Highly Polymer modified - provides high structural adhesion, allows bonding on variety of substrates, for fixing variety of tiles and stones.
- Long open time - suitable for large format & external condition.
- Water & shock resistant - suitable for wet areas & commercial floor too.
- Flexible adhesive - allows to sustain minor vibration in substrate.
- Good adhesive bond strength & bonds to various cement-based substrates.
- Low VOC - for healthy living.

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.

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.
- Do not use for fixing artificial / nano/ engineered stone/ composites/ metal tile.
- For external wall application of tile/ stone size of > 2 ft OR at > 10 ft height, use KONMENT K05 C2TES1/ Type 4T'S1 grade adhesive.

MIXING

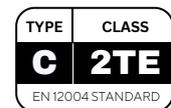
- Add 3 – 3.5 parts of powder to 1 part of water or 4 - 5 liter water for 20 Kg powder in a clean mixing vessel.
- Adjust the water as per desired consistency.
- Mix with a suitable mechanical stirrer or slow speed drills (50 - 100 rpm) until a lump free homogeneous paste is obtained.
- Always mix required quantity, which can be consumed within pot life.
- Leave mixture for 5 minutes before use.
- No further water should be added.

TECHNICAL INFORMATION



PERFORMANCE PROPERTIES AS PER IS 15477: 2019 (TYPE 3 'T')

S. No	Test	Test Method & Clause No.	Requirement as per IS: 15477:2019	Result
1.	Classification	IS : 15477-2019 Clause No. 4.0	Type 1/2/3/4/5 Adhesive	Type- 3
2.	Tensile Adhesion strength, Min, N/mm ²			
i)	Dry Condition	IS: 15477:2019 Annex: A Clause No.5.1	1.5 Min.	2.06
ii)	Wet Condition		1.0 Min.	1.38
3.	Shear Adhesion Strength, N/mm ²			
i)	Dry Condition	S: 15477:2019 Annex: B Clause No.5.2	1.5 Min.	2.06
ii)	Heat Aging Condition		1.0 Min.	1.37
iii)	Wet Condition		1.0 Min.	1.42
4.	Adjustment Time, Minutes,	IS: 15477:2019 Annex: D Clause No.5.4	Adjustment time shall not be less than that stated by manufacturer. (Declared value = ----)	35
5.	Slip(Required for vertical application only), mm			
i)	Individual	IS: 15477:2019 Annex: E Clause No.5.5	0.5 Max.	0.35
ii)	Average			0.32
6.	Deformability,(Required for vertical application only), mm			
i)	Deformable Adhesive, S1	IS:15477:2019 Annex: F Clause No.5.6	2.5-5.0	3.1
ii)	Highly Deformable Adhesive, S2		5.0 Min.	N/A



PERFORMANCE PROPERTIES AS PER ISO 13007 AND EN 12004 (C2TE)

Testing Properties	Requirement	Grey	White
• Tensile Adhesion Strength, after 28 days	≥ 1.0 N/mm ²	≥ 1.7 N/mm ²	≥ 2.1 N/mm ²
• Tensile adhesion strength after water immersion	≥ 1.0 N/mm ²	≥ 1.1 N/mm ²	≥ 1.3 N/mm ²
• Tensile adhesion strength after heat ageing	≥ 1.0 N/mm ²	≥ 1.2 N/mm ²	≥ 1.4 N/mm ²
• Tensile adhesion strength after freeze-thaw cycle	≥ 1.0 N/mm ²	≥ 1.2 N/mm ²	≥ 1.4 N/mm ²
• Slip resistance	≤ 0.5 mm	≤ 0.4 mm	≤ 0.4 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 PROPERTIES

Testing Properties	Test Results
Tentative Mixing Ratio (Powder: Water)	Grey - 1 : 0.29 by weight White - 1 : 0.30 by weight
Mixed Density	1.60 ± 0.05 kg/ litre
Open Time (IS 15477: 2019)	Min. 30 minutes
Adjustability (IS 15477: 2019)	Approx. 25 minutes
Pot Life	Approx. 90 - 120 minutes
Sag/ Slip	≤ 0.5 mm
VOC Content (EPA 24)	< 2 gm/ kg
Application Temperature (substrates and materials)	5°C to 35°C
Adhesive Thickness	3 - 12 mm
Setting/ Trafficable/ Grouting Time	24 hours

Warning

- Product for professional use.
- abide by any standards and national regulations.
- do not use the adhesive to correct surface irregularities greater than 12 mm.
- protect from direct rainfall for at least 24 hrs.
- the temperature, ventilation and absorption of the surface and covering materials to be fixed may cause variations in the adhesive workability and setting times.
- use the right size of toothed trowel for the format of the tile or slab.



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