



SHAWAR
Brilliance Within

TECHNICAL DATASHEET

(TA-405)

TA-405

Type - 4TS2/C2TES1

Shawar TA-405 complies to Type 4 'TS2' as per "IS 15477: 2019 - Adhesives for use with ceramic, mosaic and stone tiles.

1. Ideal for walls
2. Polymer-modified
3. Thicknesses up to 15 mm
4. Ideal for wet areas
5. No sag
6. Very low VOC
7. For glass mosaic
8. Prolonged workability
9. Adjustable



Rating 5 White
Rating 4 Grey



DESCRIPTION

Shawar TA-405 Tile Adhesive is Gray/White Cement based high polymer modified, thin bed adhesives for fixing of larger format tiles and stones on levelled walls & floors. A high Quality factory premixed dry powder with special chemical adhesives with inorganic fillers.

It provides high Bonding Strength and full coverage to the tile surface, thereby providing full bed, sound & long lasting installation as compared to the hollow and weak Installation with conventional mortar. It has good flexible properties.



Areas of application

Use

Substrates:

- Cement-based screeds and mortars
- Lime and cement-based plasters/renders Cellular concrete
- Plasterboard
- Heating systems
- Insulating panels
- Waterproofing products
- To overlay existing floors
- Concrete
- Cement slabs Thermal insulation panelling systems
- Gypsum and anhydrite (1)
- Anhydrite screeds (1)

Uses:

- Floors and walls
- For internal / external floor
- Swimming pools and fountains
- Facades
- overlaying
- Terraces and balconies
- Saunas and spa
- Domestic
- Commercial
- External walls/rooftop
- Industrial

Materials:

- Italian marble
- Large size slab
- Vitrified / full body vitrified Insulating and soundproofing Panels stone mosaic Porcelain/semi-vitrified tiles
- Marble and natural stone
- Various mosaics & granite stone



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CONFUSED
About
PRODUCT to be used
Or
SOLUTION of the problem.
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Instructions for use

- Apply adhesive to the substrate with the flat side of the trowel
- Comb 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.
- Leave adequate joints between individual wall and floor tiles using shawar 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.

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.



Technical Data compliant with Shawar Conchem Quality Standard

Performance properties as per is 15477:2019 (Type 4 TS2) - Complain to EN12004 : C2TES1

Testing Properties	Requirments	Testing Result
a) Tensile adhesion at dry condition, after 28 days	≥ 1.5 N/mm²	≈1.62-2.16 N/mm²
b) Tensile Adhesion at Wet condition	≥ 1 N/mm²	≈1.35-1.85 N/mm²
c) Shear Adhesion at Dry Condition	≥ 1.5 N/mm²	≈2.1-3.0 N/mm²
d) Shear Adhesion at Wet condition	≥ 1 N/mm²	≈1.75-2.52 N/mm²
e) Shear Adhesion at Heat Ageing	≥ 1 N/mm²	≈2.1-2.85 N/mm²
f) Slip resistance	<0.5 mm	≈0.18-0.30 mm (T)
g) Deformation	≥ 5 mm	≈5.1-5.9 mm(S2)

Values taken at +27 °C, 65% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e. temperature, ventilation and absorbency level of the substrate and of the materials laid. all test results are for a specified batch of material and practical Values are Subjected to Deviation upto ±10% to 15% as per the practical implications by various technician under Specified Laboratory Equipments & condition

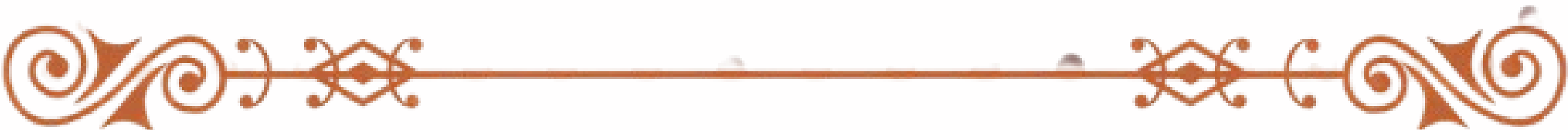
Technical Information

Application Properties

Testing Properties	Testing Result
• Tentative Mixing Ratio (Powder: Water) • Mixed Density • Open Time (IS 15477: 2019) • Adjustability (IS 15477: 2019) • Pot Life • Adhesive Thickness • Setting/ Trafficable/ Grouting Time	3: 1 by volume 1 : 0.24 by weight 1.7-1.9kg/ litre Approx. 60 minutes Approx. 60 minutes Approx. 120 minutes 3 -12 mm 72 hours

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 9 mm.
- Protect from direct rainfall/ foot traffic for at least 48 hours.
- Leave gap between the tile & fill gap with Shawar tile grout.
- 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).



Warning:-

- Product for professional use
 - abide by any standards and national regulations
 - do not use the adhesive to correct substrate irregularities greater than 9 mm
 - protect from direct rainfall for at least 24 hrs
- the temperature, ventilation and absorption of the substrate and covering
- materials, may vary the adhesive work ability and setting times
 - use the right size of notched trowel for the format of the tile or slab
 - guarantee a full-bed in all external laying operations
- if necessary, ask for the safety data sheet



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Please note that this datasheet supersedes all previous versions. For Feedback/complaints, write to Customer Relationship Manager at SHAWAR CONCHEM PVT LTD OR MAIL US AT: SHAWARCONCHEM@GMAIL.COM