

## EXTRON PLUS TILE ADHESIVE TA05

High-Performance Cement-Based  
Flexible Tile Adhesive for Exterior  
Application



SUPERIOR BOND  
STRENGTH



MINIMUM  
SHRINKAGE



TILE ON TILE  
APPLICATION



LIGHTWEIGHT  
FORMULA

## INTRODUCTION

**ExtrOn Plus Tile Adhesive TA05** is a high-performance, reduced-slip, extended-open-time flexible tile adhesive. It consists of special additives, selected cement, and fillers to enhance the critical properties of adhesive in difficult service conditions, including wide temperature variation. **ExtrOn Plus Tile Adhesive TA05** is suitable for internal and external tiling on floors and walls. It is suitable for fixing tiles like ceramic, clay tiles, basalt tiles, vitrified glass mosaic tiles, porcelain tiles, and all natural and engineered stone tiles on dry walls like gypsum board, calcium silicate board, plywood bison panel, cement fiber board, etc.

### Specifications:

IS 15477-2019, Type - 4T S1.

EN 12004-2017 Type - C2T E S1.

Technical Data	
Physical States	Cementitious Powder
Appearance	
Color	Grey/White
Mixed density	1.8 – 2.1 kg/litre
Open Time (IS 15477: 2019) 2kg load applied for 30 sec	~ 30 minutes
Pot Life	~ 120 minutes
Adjustment Time (IS 15477: 2019) 2kg load applied for 30sec	~ 25 minutes
Slip Resistance (T) (IS 15477: 2019)	< 0.5 mm
Tensile Adhesion at Dry Condition (IS 15477: 2019)	Min. 1.5 N/mm <sup>2</sup>
Tensile Adhesion at Wet Condition (IS 15477: 2019)	Min. 1.0 N/mm <sup>2</sup>
Shear Adhesion at Dry Condition (IS 15477: 2019)	Min. 1.5 N/mm <sup>2</sup>
Shear Adhesion at Wet Condition (IS 15477: 2019)	Min. 1.0 N/mm <sup>2</sup>
Shear Adhesion at Heat Aging Conditions	Min. 1.0 N/mm <sup>2</sup>
Transverse deformation (S1)	≥ 2.5mm, ≤ 5mm

### Performance Data As per IS 15477-2019, Type-4 T S1

Tests	Requirements	Typical Value (Range)
Tensile Strength, N/mm <sup>2</sup> (Dry Condition)	1.5 (minimum)	1.5 to 2.3
Tensile Strength, N/mm <sup>2</sup> (Wet Condition)	1.0 (minimum)	1.2 to 1.8
Shear Adhesion, N/mm <sup>2</sup> (Dry Condition)	1.5 (minimum)	1.5 to 1.9
Shear Adhesion, N/mm <sup>2</sup> (Wet Condition)	1.0 (minimum)	1.0 to 1.5
Shear Adhesion, N/mm <sup>2</sup> (Heat Aging)	1.0 (minimum)	1.3 to 1.8
Slip resistance, mm, (T)	≥ 0.5	0.0 to 0.2
Deformity, mm (S1)	>2mm, <5mm	3-4

### Performance Data As per EN 12004-1 Type-C2 T E S1

Tests	Requirements	Typical Value (Range)
Tensile Strength, N/mm <sup>2</sup> (Dry Condition)	≥ 1.0	1.5 to 1.9
Tensile Strength, N/mm <sup>2</sup> after water immersion	≥ 1.0	1.2 to 1.6
Tensile Strength, N/mm <sup>2</sup> after Heat aging	≥ 1.0	1.4 to 1.8
Tensile Strength, N/mm <sup>2</sup> after Freeze-Thaw cycles	≥ 1.0	1.3 to 1.7
Slip resistance, mm (T)	< 0.5	0 to 0.2
Extended Open Time, (>30 min) N/mm <sup>2</sup>	≥ 0.5 (Tensile Adhesion)	1.0 to 1.6
Deformity, mm (S1)	> 2mm, < 5mm	3 to 4.6

## METHOD OF USE

### Surface Condition

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Surfaces should be clean and free of dust, oil, grease, paint, tar, wax-based curing agent, primer, sealer, concrete colour stains, old adhesive residues (unless otherwise recommended by Technical Services), form release agent, and any deleterious substance or debris that may prevent, reduce, or affect adhesion or performance. Surfaces must be plumb and true to within 6 mm in 10 ft (3m). Remove all excess water and standing water, if any, allowing the surface to become almost dry to provide a saturated surface-dry (SSD) condition before installing the levelling.

### Mixing

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20–30% water or 4-6 litres of water for 20 kg of powder in a clean mixing vessel. Mix with a suitable mechanical stirrer or slow-speed drills (100–400 rpm). and mix until a uniform lump-free consistency is obtained.

### How to apply

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- Apply the tile adhesive using the notched trowel to create thick ridges.
- Apply the tile adhesive in upward, sweeping motions.
- Fix the tile carefully.
- Push your tile into the adhesive and give it a slight twist. This will bed it securely onto the wall and reduce the amount of air that can sit between the tile and wall surface.
- Use a rubber mallet to tap the tile down so the adhesive grips. Now, repeat until the wall, floor, or substrate is complete.
- Repeat this with the next tile, using spacers to separate the tiles as you go.
- Adjust the tile within 25 minutes if required.
- Water should not be added to try and regain its characteristics when tile adhesive crosses its pot life.

### Coverage

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A 20kg bag of ExtrOn Plus Tile Adhesive TA05 will cover approximately 5 to 6 square meters of tiles at a bed thickness of 3mm (this is how thick the layer of adhesive is). The bed layer can be up to 12mm if needed.

### Features and Advantages

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- Extended open time and slip resistance.
- Excellent Workability
- For fixing all types of tiles for interior and exterior substrates, e.g., floors, kitchens, bathroom walls, corridors, lobbies, meeting rooms, halls, etc.
- Good deformity resistance due to temperature variation
- Fast installation
- Single component, add water to it, mix it, and it is ready to use.
- High bond strength between substrate and tiles.
- Most suitable for vertical surfaces, even for bonding heavy tiles without slip.
- Self-curing adhesive.
- Resistant to water and severe weather conditions.
- It is safe to use a drinking water tank.
- Can be applied tile-on-tile.
- Easy to apply.
- Reduced slip with longer pot life.

## Precautions

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- The floor or substrate to which tile adhesive is to be applied should be flat.
- The uneven or extremely rough surfaces, if any, should be levelled with cement mortar or PAMR repair mortar.
- Protect the tiled surface from rain, frost, and foot traffic for the first 24 hours.
- Keep out of reach of children, wear gloves, and wear safety PPE at the time of use.
- Never mix the dried mortar with water to use again.

## Shelf Life & Storage

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12 months from the date of manufacturing. The suitable ambient temperature is 5°C to 40°C. Keep the material in a dry place and avoid contact with moisture.

## Packing

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20/25/50 kg in HDPE bags.

## Other Products Categories available

PAMR brings you the widest range of Construction Chemicals



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The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, in any case it cannot be considered as a warranty involving our liability in case of misuse or any different use of our products from the “Application” paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website [www.pamrindustries.com](http://www.pamrindustries.com)