

# NUVOCO ZERO M TILE ADHESIVE T5

## EPOXY BASED PU ADHESIVE FOR TILE & STONE

### DESCRIPTION:

Nuvoco Zero M Tile Adhesive T5 is a two-component epoxy-based PU multipurpose adhesive for fixing all types of tiles and stones on a variety of substrates in interior and exterior areas on walls & floor. It is specially designed for fixing tiles/stones on water-sensitive/deformable or absorbent/non-absorbent substrates. Having flexible properties, is resistant to water, freeze and thermal shocks when fully cured.

### STANDARD COMPLIANCE:

STANDARD COMPLIANCE: CONFORMS TO IS 15477:2019 TYPE-5 'T S2 & EN 12004:2017 - "R2T"

### FEATURES



Superior Bond Strength



Excellent Multi-surface adhesion



Impact & Vibration Resistance



Temperature Resistance



Flexible & Tough



Durable



### AREAS OF APPLICATION, TYPE & RECOMMENDED TILE SIZE

| AREAS OF APPLICATION                 | TYPE OF SUBSTRATE   | TYPE OF TILES  |
|--------------------------------------|---|--|
| For Interior & exterior floor & wall | Cementitious surfaces (plaster, screed, concrete), wood, plywood, gypsum board, cement sheets, bison panels, glass, PVC, and metal. | Any tile (Ceramic, vitrified, fully vitrified, natural stone tiles, glass mosaic, porcelain tiles) |

### TECHNICAL INFORMATION

#### PHYSICAL PROPERTIES @ 27 ± 2°C

| PROPERTY                                 | TYPICAL RESULT  |
|--|---|
| Physical Appearance                      | Part A (Resin) – White Paste   Part B (Hardener) – Yellow Liquid  |
| Mix Ratio (by weight) – Part A : Part B  | 100 : 10 (Resin : Hardener)   |
| Physical appearance of mixed consistency | White Paste   |
| Mixed material Density                   | Approx. 1.65 ± 0.150 g/cc   |
| Application temperature                  | 10°C to 40°C  |
| Pot life                                 | 60 Minutes  |
| Foot traffic                             | 24 hrs  |
| Grouting                                 | After 24 hrs  |
| Self Curing time                         | 7 days  |
| Coverage*                                | 16 - 20 sq.ft./ 4kg pack - 1.5 mm bed thickness (using 3 mm x 3 mm notch trowel).<br>8 - 10 sq.ft./ 4kg pack - 3 mm bed thickness (using 6 mm x 6 mm notch trowel). |

\*Coverage may vary based on trowel notch size, tile type and size, and substrate evenness. Calculations are based on a 6x6x6 mm size notch trowel at 27°C under standard laboratory conditions.

**PROPERTIES AS PER IS 15477 : 2019 @ 27 ± 2°C**

| PROPERTY WITH TEST METHOD                                | REQUIREMENTS             | REQUIREMENTS            |
|--|--------------------------|-------------------------|
| Tensile Adhesion Strength (as per Annex A) Dry Condition | ≥ 2.0 N/ mm <sup>2</sup> | 2.42 N/ mm <sup>2</sup> |
| Shear Adhesion Strength (as per Annex B) Dry Condition   | ≥ 6.0 N/ mm <sup>2</sup> | 6.45 N/ mm <sup>2</sup> |
| Heat Aging Condition                                     | ≥ 3.0 N/ mm <sup>2</sup> | 6.22 N/ mm <sup>2</sup> |
| Open time (as per Annex C)                               | As per Manufacturer      | 70 mins                 |
| Adjustment time (as per Annex D)                         | As per Manufacturer      | 80 mins                 |
| Slip (as per Annex E)                                    | ≤ 0.5 mm                 | 0.42 mm                 |
| Deformability (as per Annex F)                           | ≥ 5.0 mm                 | ≥ 10 mm                 |

**PROPERTIES AS PER EN 12004 : 2017 @ 23 ± 2°C**

| TESTING PROPERTIES                                | REQUIREMENT              | RESULTS                                    |
|---|--------------------------|--|
| Shear Adhesion Strength (Clause 8.5)              |                          |  |
| Initial   | ≥ 2.0 N/ mm <sup>2</sup> | 6.21 N/ mm <sup>2</sup>                    |
| After Water Immersion                             | ≥ 2.0 N/ mm <sup>2</sup> | 4.85 N/ mm <sup>2</sup>                    |
| After Thermal Shock                               | ≥ 2.0 N/ mm <sup>2</sup> | 6.13 N/ mm <sup>2</sup>                    |
| Open time: Tensile Adhesion Strength (Clause 8.1) | ≥ 0.5 N/ mm <sup>2</sup> | 0.64 N/ mm <sup>2</sup> (After 70 minutes) |
| Vertical Slip (T) (Clause 8.2)                    | ≤ 0.50 mm                | 0.26 mm                                    |

**APPLICATION INSTRUCTIONS:**

**STEP 1 - SURFACE PREPARATION**



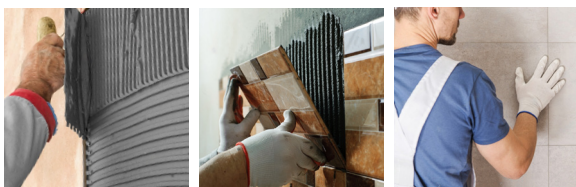
- The surface should be thoroughly cleaned & freed from loose particles, wax, grease, oil and polish.

**STEP 2 - MIXING**



- Add Hardener to resin and mix by using a mechanical stirrer or slow speed drills (50 - 100 rpm) until a homogenous and uniform coloured paste is achieved.

**STEP 3 - APPLICATION**



- Apply the mix evenly on the substrate. Spread the adhesive using a suitable & recommended notched trowel.
- Place the tile & adjust to correct position within recommended pot life.
- Use a beating block or rubber mallet to fix tile and adjust level.
- Use spacers as per design requirement to maintain uniform joint.
- Use appropriate grouting from the range of NUVOCO ZERO M TILE GROUT and NUVOCO ZERO M EPOXY GROUT after 24 hours.

**SAFETY INSTRUCTIONS:**

- Always use rubber gloves, mask and protective eyewear during application, as exposure may cause itching or irritation.
- In case of contact with skin & eyes wash with plenty of water & seek medical attention.
- Keep away from children, food items, and direct sunlight.
- Harmful if swallowed; in case of accidental ingestion, seek immediate medical attention.
- Dispose of leftover product and containers responsibly as per regulations.

**STORAGE AND SHELF LIFE:**

24 months for sealed pack when stored under cover & out of direct sunlight. Protect from extremes of temperature.

**PACKAGING:** 4 KG Bucket (Contains 3.65Kg of resin + 0.35Kg of hardener)

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