

# PRODUCT DATA SHEET

## SUMERU UNIQUE 501

### Product Description:

Sumeru Unique 501 is high polymer modified tile adhesive for fixing all type of medium sized vitrified tiles, mosaic tiles, porous natural stone used on wall floor in interior. C2T classified according to EN 12004

### Area of Application:

- Wall & Floors
- Interior
- Dry areas
- Wet Areas
- Showers
- Swimming Pools

### Features & Benefit:

- High Bonding Strength
- Good Pot Life
- Excellent Workability & Self-curing
- Water Resistant & Easy Mixing
- Ready to use with less material wastage
- Save Time & water
- Eco friendly

### Surface Preparation:

All supporting surfaces shall be structurally sound, solid, stable, dry completely and cured well. They shall be clean and free of oil, dust, grease, paint, tar, wax, primers, sealers, curing agent, release agent or any deleterious substance and debris which may prevent or reduce adhesion. Repair all structural, fractionizing & perimeter joints present in the surfaces.

### Mixing Method:

Add Sumeru Unique 501 to clean water mix thoroughly until lump free mortar is obtained. A Sumeru Unique 501 is a 20kg bag will require approx. 5-6 litres of water to obtain lump free consistency. The adhesive is immediately ready for use. Where mixing by weight is not possible, volume mixing can be carried out at site in the ratio of 20% -25% or (1 water: 4 powder) of water by volume of material. Do not attempt to extend the pot life by adding more water to the mix.

### Application Method:

Comb the adhesive to the required depth using a suitable square notch trowel. Choose a typical notched trowel with sufficient depth to achieve > 80%. Mortar Contact to both tile and substrate for all interior applications and >90% for exterior installations. Leave no voids behind tiles, with pressure, apply a coat by using the trowels flat side to key mortar into substrate. If adhesive is skinned over (not sticky) remove and replace with fresh adhesive or premix.

Limitation of application Sumeru Super 501 shall not be applied in the following cases:  
On metal surfaces and wood.

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### Precautions:

- Keep out of reach of children.
- Wear suitable protective clothing, gloves and eyes/face protection.
- In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.
- For more details please refer the relevant Material Safety Data Sheet.

### Technical Information:

**Standards:** C2T, EN-12004, IS-15477; 2019 type 2

Chemical Base: Selective polymer water retention additives, best quality aggregates, standard Portland cement. Tensile Adhesion after 28 days (test - method EN 1348).

Test Value	Value	Requirement
Tensile Adhesion Dry	1.6 N/mm <sup>2</sup>	≥1.0 N/mm <sup>2</sup>
Tensile Adhesion Wet	1.2 N/mm <sup>2</sup>	≥1.0 N/mm <sup>2</sup>
Tensile Adhesion Heat	1.2 N/mm <sup>2</sup>	≥1.0 N/mm <sup>2</sup>

Shear adhesion after 28 days test method IS= 15477 type 2 adhesive.

Test Value	Value	Requirement
Shear Adhesion (24 Hours)	5.50-6.50 KN	4KN
Shear Adhesion Dry (14 days)	10.50-11.50KN	10KN
Shear Adhesion Heat (7 days)	5.5.0-6.50KN	5KN
Shear Adhesion Wet (7 days)	5.50-6.50KN	5KN

### **Physical Properties**

Properties	Test values as per specifications
Bulk density	1.30 – 1.35 g/cc (Is 15477 Type 2 adhesive)
Coverage	25 to 30 sq. ft. (5 mm thickness)
Layer thickness	From 3 to 10 mm
Setting time (final)	24 hours (+25 C°)
Foot traffic/grouting of joint wall	4-6 hours (+25 C°)
Foot traffic/grouting of joint floor	24 hours (+25 C°)
Adjustable Time	>35 min (+25 C°)
Slip Resistance	< 0.5 mm (EN 1308)
Pot Life	2-3 hours (+25 C°)
Open Time	>20 min (+25 C°)

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**Colour:** Grey powder

**Packing:** 20Kg & 40Kg.

**Shelf life:**

Sumeru Unique 501 has 12 months of shelf life from the date of manufacturing.

**Storage Condition:**

Store sealed bag of Sumeru Unique 501 in cool & dry condition. Protect from direct sunlight & frost.

**Cleaning of Tools:**

Tools and containers may be cleaned using clean water when the adhesive is still fresh in other case the hardened adhesive can be removed from mechanical tools.

**Health & Safety measures:**

For more information and guidance of safety, storage and disposal of chemical products, customers should refer to the updated data sheet of the product which contains all the details of physical toxicological, ecological and other safety related data.

**Important Notes:**

The information and in particular, the recommendations relating to the application and end-use of Sumeru products, are given in good faith based on Sumeru's current knowledge and experience. The user of the product must test product's suitability for the intended application and purpose.

Sumeru reserves the right to change the properties of its products. Users must always refer to the most issue of the local product data sheet for the product concerned, copies of which will be supplied on request.

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