

PRODUCT DATA SHEET**SUMERU EXCELLENCE 801****Product Description:**

Sumeru Excellence 801 is premium quality high performance polymer modified deformable tile adhesive is recommended for fixing all type of large sized vitrified tiles & thin tiles, glass mosaic, non-staining natural stones, engineered stone, marble, glass tiles on vibration proof area.

C2TES1 classified according to EN12004 and Type-4 as per IS 15477:2019

Area of Application:

- Wall & Floors
- Interior & Exterior
- Dry areas
- Wet Areas
- Showers
- Swimming Pools
- Hydrotherapy Pools
- Limited Movement/vibration

Features & Benefit:

- Highly flexible to with stand medium substrate movement.
- Excellent tensile & shear adhesion fixing tile on RCC surface without hacking.
- Slip resistant for vertical application.
- Very Good open time.
- Water resistant

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 Excellence 801 to clean water mix thoroughly until lump free mortar is obtained. Sumeru Excellence 801 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 26% -28% or (1 water: 3 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.

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Sumeru Excellence 801 shall not be applied in the following cases

- On metal surfaces and wood.
- Gypsum plaster substrates must have minimum thickness of 10 mm and a maximum moisture content of 0.5%
- If a waterproofing layer under tiles required, acrylic and cement membranes are allowed.
- Protect freshly applied material from freezing condition and rain, etc.
- Perform a test prior too carrying out any work with natural stone tiles for better performance.
- It is not usually necessary to pre-dampen the tiles.

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: C2TES1, EN-12004, IS15477; 2019 type 4

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

Test Value	Value Grey	Value White	Requirement
Tensile Adhesion Dry	2.4 N/mm ²	2.2 N/mm ²	≥1.5 N/mm ²
Tensile Adhesion Wet	2.2 N/mm ²	1.7 N/mm ²	≥1.5 N/mm ²
Tensile Adhesion Heat	2.1 N/mm ²	1.4 N/mm ²	≥1.5 N/mm ²

Deformation :

Transversal deformation	In between 2.5- 5 mm	In between 2.5 - 5 mm	≥ 2.5 mm
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Shear adhesion after 28 days test method IS= 15477 type 4 adhesive

Test Value	Value	Requirement
Shear Adhesion (24 Hours)	5.50-6.50 KN	4KN
Shear Adhesion Dry (14 days)	11.50-12.50KN	10KN
Shear Adhesion Heat (7 days)	6.50-7.50KN	5KN
Shear Adhesion Wet (7 days)	6.50-7.50KN	5KN

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SUMERU EXCELLENCE 801**Physical Properties**

Properties	Test values as per specifications
Bulk density	1.30 – 1.35 g/cc (Is 15477 Type 4 adhesive)
Coverage	25 to 30 sq. ft. (5 mm thickness)
Layer thickness	From 3 to 15 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	>40 min (+25 C°)
Slip Resistance	< 0.5 mm (EN 1308)
Pot Life	3-4 hours (+25 C°)
Open Time	>30 min (+25 C°)

Colour: Grey & White powder

Packing: 20kg

Shelf life: Sumeru Excellence 801 have 12 months of shelf life from the date of manufacturing.

Storage Condition: Store sealed bag of Sumeru Super 801 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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