



VURA Flex S1TM

POLYMER MODIFIED FLEXIBLE ADHESIVE

Deformable cementitious, polymer fiber modified adhesive with improved characteristic, slip resistance and extended open time. High performance adhesive for installing vitrified tiles, large scale tiles as well as natural stones. It can be used to fix regular size tile in commercial area as it accommodates shocks due to heavy traffic.

CHARACTERISTICS

- **C2TES1** compliant with EN12004 standard
- **Type 3T S1** as per IS15477:2019
- With visible fibers for strength and flexibility balancing substrate deformations on critical surfaces like balconies, terraces, wet rooms, bathrooms, swimming pool and external facade etc.
- For ceramic, vitrified tiles (semi and fully), glass mosaic and natural stone (non-sensitive)
- Suitable for large scale and heavy-duty vitrified tiles
- Suitable for natural stones (internal as well as external application)
- Suitable for tile-on-tile application
- On waterproof and moisture-proof layers
- For difficult substrate like heated floors and dry walls
- No vertical slip
- For inside and outside use
- Longer open time for safer application and adjustable
- Easy and excellent workability because of plasticized consistency
- Application up to 15mm
- Suitable for cement fiber board, gypsum board (Internal application)
- Installation of floors subjected to heavy traffic



Natural Stone



Heated Floors



Balconies & Patios



Wall And Floor



Large Tiles



Humid & Water Areas



Indoor & Outdoor Use



Tile On Tile



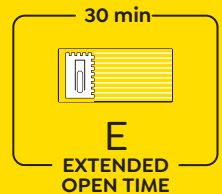
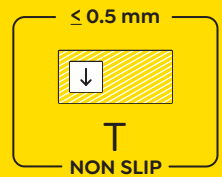
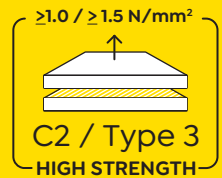
Low Dust

SCOPE OF USE

- **VURA Flex S1** is used to laying vitrified tiles (semi and fully), cement and stone tiles, glass mosaics and natural stone on deformable substrate.
- Its features keep elastic connection with substrate which allowed to carry over shear stress between tile and substrate.
- **VURA Flex S1** is recommended to fix tiles/stones on wall, heated floors, dry wall boards, facades, terraces, balconies, swimming pools and technological water tanks (no chemicals).
- With advanced adhesion, it is recommended for tiles with absorption <0.5% (like fully vitrified tiles), and for fixing tiles/stones on critical substrates such as existing tiles, gypsum substrates, dry wall boards, anhydrites and cellular concrete.
- Indoors and outdoors.
- It is recommended for floors with elevated functional loads, in shopping malls, staircase.
- On horizontal and vertical surfaces.
- On cement and cement-lime plaster, cement screeds, cement ground coats & concrete etc.

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SUBSTRATE PREPARATION

Adhesive can be applied on even and compact substrates, free of any substances that reduce adherence (grease, bitumen, oil, paint, dust etc.). Concrete should be at least 1 month old. Cement screeds and plasters should be fully cured. Anhydrite (residual moisture below 0.5%), gypsum (residual moisture below 1%) substrates should be mechanically roughened and cleaned from dust. Dry wall aerated concrete should be free from dust. It can be applied on existing tiles and should be roughened and cleaned before application. Substrates must not be wet. Any existing dirt, loose layers and paint coating shall be mechanically removed. Absorbent substrates shall be dampened and remove excess water before application.

APPLICATION

- Pour **VURA Flex S1** into a container with the precisely measured amount of clean water and mix with a drill mixer until a homogeneous mass without lumps is obtained. Leave it for 5 mins and then mix again. Apply the mortar with a suitable notched trowel. Use proper size notch trowel to ensure full bedding on the tile. The depth of trowel's notching is varied as per the size of tile & stone. The back buttering method shall be used for larger tiles or stones and for outdoor applications (i.e., additionally a thin layer of the mortar should be spread on the tile or stone's back side, contact area > 90%).
- Place the tiles or stones only before the open time of the adhesive.
- Lay the mortar and press while the mortar is still sticky. Fresh excess mortar can be removed with water, hardened material can only be removed mechanically.
- Grouting can be performed no earlier than after 24 hours using VURA tile grouts.
- Floors are set to light traffic after approx. 24 hrs.
- Expansion joints, joints at the corners of walls and floor and around sanitary equipment shall be filled with sealants or shall be treated with appropriate treatment.

PLASE NOTE

- Application should be carried out in dry conditions. All data refers to +23°C and R.H. 50%. In different weather conditions consider faster or slower material drying.
- Spread not more than the areas which can be covered within the open time of the adhesive.
- For grouting, it is recommended to use VURA tile grouts. VURA SiGro, VURA Oxi, VURA Oxi 3K grouts can be used for indoors and outdoors grouting, also on terraces and balconies. VURA grouts are also used where substrates are exposed to increased chemical and mechanical aggression.
- For waterproofing, it is essential to waterproof wet areas with VURA waterproofing products prior to application.
- For absorbent natural stones, it is recommended to use VURA FiSeal+ or VURA FiSeal Pro five side sealer.
- If tiles or stones prone to color changes, sample test must be carried out to check whether the mortar causes any fading / discoloration of the tiles/stones.
- Ensure to keep sufficient gap between subsequent tiles to accommodate thermal expansion and contraction.
- Hardening of the product can be accelerated or delayed subject to local conditions.

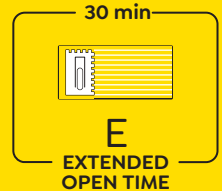
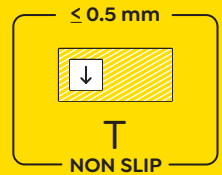
PRODUCT SAFETY

Protect skin and eyes from exposure as product contains cement which gives strong alkaline reaction with moisture. If comes in a contact with product, wash immediately with plenty of water and consult a medical advisor. It is recommended to use protective gloves and goggles. Please refer to Material Safety Data Sheet for detailed safety information.

GENERAL DATA

1. Color : Grey and White
2. Pack size : 20 Kg bag
40 Kg bag (For project sale only)
3. Base : Mixture of cements with mineral fillers and modifiers

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ONE UNIT = ONE TREE

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TECHNICAL DATA

- Bulk Density : Grey: 1.39 g/cc
: White: 1.36 g/cc
- Mixing Ratio : 4.4-4.8 L of water (22%-24% by weight) for 20 Kg Grey/White bag
: 8.8-9.6 L of water (22%-24% by weight) for 40 Kg Grey/White bag
- Pot Life : 4 hrs.
- Achieved Thickness : Upto 15mm
- Application Temperature : From +5°C to +35°C
- Grouting : After approx. 24 hrs
- According to EN12004:2017 Standard @23±2°C**
Test Conditions **Requirements** **Grey/White Value In Range**
Tensile Strength (N/mm²)
• Initial (Dry Condition) ≥ 1.00 N/mm² 1.35-1.60 N/mm²
• After Water Immersion ≥ 1.00 N/mm² 1.10-1.25 N/mm²
• After Heat Ageing ≥ 1.00 N/mm² 1.20-1.50 N/mm²
• After Freeze/Thaw cycles ≥ 1.00 N/mm² 1.15-1.30 N/mm²
Open Time (E) @30 minutes ≥ 0.5 N/mm² 0.55-0.65 N/mm²
Slip (T) ≤ 0.5 mm 0.20-0.40 mm
Transverse Deformation (mm) SI: ≥ 2.5 and <5mm 2.55-4.00 mm
- According to IS15477:2019 Standard @27±2°C**
Test Conditions **Requirements** **Grey/White Value In Range**
Tensile Adhesion (N/mm²)
a) Dry Condition ≥ 1.50 N/mm² 1.35-1.60 N/mm²
b) Wet Condition ≥ 1.00 N/mm² 1.10-1.25 N/mm²
Shear Adhesion (N/mm²)
a) Dry Condition ≥ 1.50 N/mm² 1.55-1.70 N/mm²
b) Wet Condition ≥ 1.00 N/mm² 1.10-1.30 N/mm²
c) Heat Ageing ≥ 1.00 N/mm² 1.10-1.50 N/mm²
Open time (Minutes) Not Specified 30 mins
Adjustability (Minutes) Not Specified 35 mins
Slip (T) ≤ 0.5 mm 0.20-0.40 mm
Deformability (mm) SI: ≥ 2.5 and <5mm 2.55-4.00 mm
- Temperature Resistance : From -30°C to +75°C
- Coverage : Consumption may vary depending on the evenness of the substrate. Trowel notch size, types of tiles or stones and the application technique
- Approximate consumption : As a guide : 1.2 kg/ m² /mm thickness
- Set to light foot traffic : 24 hrs.
- Ready to use : 14 days
- Shelf Life : Until 15 months since the date of production when stored in undamaged dry conditions and original packaging.

The product is compliant with the EN12004 / ISO 13007 and IS15477:2019 standard.

OTHER INFORMATION

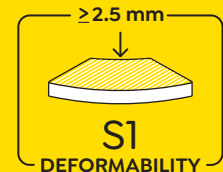
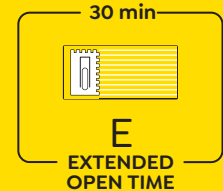
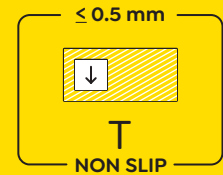
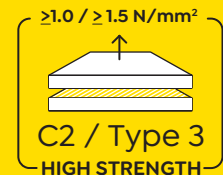
Please consult our advisory service for further support or assistance. Contact information is available on the VURA website.

Apart from the information given here it is also important to observe the relevant guidelines, regulations and common standards of various organizations and trade associations. The afore mentioned characteristics are based on practical experience and applied testing. Confirmed properties and possible uses which go beyond those listed in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23° C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions, hardening can be accelerated or delayed and that the product itself is subject to local conditions.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of willful misconduct or gross negligence on our part or unless there is a case of personal injury or death or a case of liability under the Product Liability Act.

This technical data sheet supersedes all previous editions relevant to this product. Please be aware that this Technical Data Sheet only relates to a product manufactured in the specific relevant production site.

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