

DONCRETE- TA-06-PU

Two Component Ready to Use PU Based Tile Adhesive

Product Description

DONCRETE- TA-06-PU is a two component, ready to use, polyurethane thinset adhesive for fixing even large as well as thin size of tiles and stones. **DONCRETE- TA-06-PU** is suitable for fixing all types of tiles and stones on any substrates including metal and all glass surfaces.

DONCRETE- TA-06-PU is recommended for application on interior as well as exterior wall and floor. **DONCRETE- TA-06-PU** polyurethane formulation provides elastic flexibility and excellent bonding which makes it ideal choice for all cladding applications. **DONCRETE- TA-06-PU** is suitable during fixing.

- Large as well as thin size tiles and stones.
- On heated subfloors and in areas subject to thermal shock and freezing.
- For absorbent and non absorbent deformable substrates like wood, metal, glass, rubber, PVC, linoleum, asphalt etc.
- No spacer required.
- Tiles and stones prone to water absorption and thermal expansion.”

From unique architectural designs to iconic cladding application, **DONCRETE- TA-06-PU** can meet all requirements.

Features and Benefits

- For internal as well as external wall and floor.
- Suitable for substrates including wood, metal, glass, rubber, PVC, linoleum.
- No Spacer required if adequate constructions joints are provided in tile and stone cladding
- Suitable for large as well as thin size tile and stone cladding on high rise buildings.
- Suitable for heated subfloors and areas subjected for thermal shock and freezing.
- Suitable for tiles and stones prone to deformation due to water absorption and thermal expansion.

- Suitable to install all tiles and stones including glass and metal tiles.
- No shrinkage, prevents debonding and gives longer life to tiles and stones.
- Excellent Bond strength and chemical resistance.
- Two Component adhesive : prevents wastage, as only quantity which is required has to be mixed.
- Easy to use.
- Sub surface treatment of stone (to prevent discoloration) is not required.
- Useful for bed thickness of 3-6mm, May go upto 10 mm in limited extent.
- No sag formula: allows for hassle free application on vertical walls, without any slippage
- Can be used for new construction as well as for renovation over existing floors and walls.
- Easy workability.
- No hacking of substrate is required to achieve the bonding,
- Moisture free system : Does not damage wooden substrates or tiles, and water sensitive stone like green marble
- Reaction based system, and thus not harshly affected by temperature & humidity.
- Can be used on touch dry surface of concrete.
- Do not need to wait for substrate to get completely dry.
- Chemical Resistant.

Classification

DONCRETE- TA-06-PU is an improved (2) reaction adhesive (R) and slip resistant (T) classified as R2T as per ISO 13007 and meets requirement of IS15477:2019 type 5 adhesive

Application substrates

- Drywall substrates like gypsum board, calcium silicate board, bison panel board,
- Cementitious substrates like screeds and mortars, plasters/renders, existing floor, concrete Masonry, cement Terrazzo, blocks, self Levelling Screeds.
- Plaster board, Tile backer board, Fibre Cement board,

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- Cement Backer board, Engineered Wood, MDF, MR grade Plywood, Chipboard.

Tile substrates like ceramic tile, vitrified tile, stone, porcelain tiles, glazed tiles, vinyl tiles.

- Other substrates like brick Masonry, gypsum plaster, underfloor heating installation, over-laid timber floors, metal, glass, rubber, linoleum, PVC.
- Waterproofing substrates like mastic asphalt, cementitious, epoxy, polyurethane.

Application areas

Suitable for interior as well as exterior, wall & floor.

Surface preparation

For Cementitious substrate, waterproofing and tiles

- Saturate the surface well (cementitious substrates) and remove excess water before application of the tile adhesive. Surface should be brought to touch dry condition.
- Substrate should be structurally sound, clean and free of all bond inhibiting compounds, like dirt, oil, grease, paint, sealers, curing compounds, laitance etc. Remove dirt, dust and laitance if any using high pressure water jet or any other suitable method. Surfactants may be required for oil, grease etc.
- Rough or uneven concrete surfaces should be made smooth. Concrete screeds, renders and block work should be sufficiently cured to avoid shrinkage cracks.
- Surfaces should be within 15°C to 40°C (at higher temperature material will set faster. To bring down the temperature, saturate with water.)

For Drywalls and others substrates:

Only dry cleaning is recommended for such substrates. For metallic substrate, loose rust and paint needs to be removed and to be properly treated

before application of **DONCRETE- TA-06-PU**. Use a wire brush if required, to remove any bond inhibiting compound

- Ensure that the substrate is flat, stable and well adhered.

Note:-

- In case of higher undulation, a neat coat of **DONCRETE- SBR** to be applied on the substrate, followed by application of weberwall premium plaster, to smoothen the surface (Refer technical data sheet of **DONCRETE- TA-06-PU** and weberwall premium plaster for further details)
- In case of oil stains, use of surfactants may be necessary, followed by proper cleaning with water, to avoid debonding of tiles.
- Leave expansion joints of at least 10 mm thickness, for every 12 feet in the substrate and in accordance with industry standards. Do not cover expansion joints with adhesive, and can be filled with appropriate flexible sealant.

Mixing

Please ensure use of proper personal protective equipment before handling the product.

- Gradually add 2.5 kg of **DONCRETE- TA-06-PU** -component A to 2.5 kg of **DONCRETE- TA-06-PU** -component B and mix it to a lump free, smooth, workable paste using a suitable stirrer/low speed drill mix (100rpm)/or any other appropriate tool.
- Mixing at high speed should be avoided.
- Mix only the quantity of adhesive, which can be consumed in 60 mins.
- After mixing allow the mixture to stand for 2 minutes for it to mature.
- Wash tool immediately with water, after use, and before the adhesive hardens.

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Note :-

- Do not attempt to extend the pot life by adding any additional material like resin, solvent etc. These may adversely affect the performance of the product.

Application

- Apply the adhesive onto the substrate covering up to 1 m² at a time (or no more than what can be tiled within 30 minutes). Unfavorable weather conditions (strong sun, dry wind, high temperature etc.) or a highly absorbent substrate can reduce the open time, even to just a few minutes. It is therefore necessary that careful checks be made to ensure that adhesive fins do not become hard. If observed hard, remove the adhesive, and apply fresh adhesive.
- Apply **DONCRETE- TA-06-PU** over the surface using the straight edge of the notched trowel and then comb the applied adhesive using the notched side of the trowel to achieve the desired thickness.
- Double buttering is recommended for heavier stones.
- If the adhesive is buttered to the tile, then ensure proper coverage of the tile surface to prevent void formation.
- Leave expansion joints of at least 10 mm thickness, for every 12 feet in the substrate and in accordance with industry standards.
- Do not cover expansion joints with adhesive, and can be filled with appropriate flexible sealant.
- Joint width shall be as per recommendation of architect/site engineer.

NOTE: The size of the notch trowel and the angle of application will determine the bed thickness as per the following formula:

$$\text{Bed Thickness} = \frac{NW \times NH \times \sin \theta}{(NG+NW)}$$

Where:

- NW is the width of the notch.
- NG is the gap in between the notches.
- NH is the height of the notch.
- θ is the angle of application.

Please use small sample for application evaluation in case of pure white or highly porous stones before going for large scale usage.

Installing the tile

- Clean the stone/tile with water/ dry cloth before installation. Wipe with a clean dry cloth, to ensure there is no bond inhibiting layer of water on the tile.
- Bed the tiles firmly into the adhesive with a slight sliding and/or twisting action/shear, to ensure a good and uniform contact.
- It is good practice to lift an occasional tile after fixing, to verify that the required contact is being achieved.
- In wet areas, external areas and all floors, the final adhesive bed should be free from voids.
- If necessary, tiles should be adjusted, within 90 minutes of installation.
- Carefully clean off any excess adhesive from the tiles and joints with a damp sponge or cloth before it sets. Leave for at least 24 hours before grouting.
- More time may be required before grouting when tiling onto impervious or sealed surfaces or higher bed thickness.

Note to specifier and installer

- Do not use on wet screed or plaster.
- Surface must be fully cured.
- No primer is required, for fixing even heavier stones on drywall or plywood.
- To prevent any discoloration of highly porous natural stone, treat with under-tile impregnator webers stone protect.

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- To get excellent stain resistance on stone, use hydrophobic and oliophobic impregnator **DONCRETE- Seal**.
- To get invisible joints between spaced tile and stones, fill with specially formulated weber pearl armor specialty grout
- To get high aesthetic appeal, fill joints with weber knight armor specialty grout.
- When highly porous natural stone is treated with webersys stonesseal as an impregnator to prevent capillary movement of slurry to avoid patches on top of stone, needs to be fixed **DONCRETE- TA-06-PU**.

Grouting

If joints are kept between tiles and stones, then joints to be grouted after 24 hours of application of **DONCRETE- TA-06-PU**. To match joint with the color of tile/stone, use epoxy which is available in 12 most popular shades.

Ready to use

Surfaces are ready for use, after 2 days, post completion of grouting, depending upon the type of grout used.

Packaging

5 kg Bucket (Component A - 2.5 kg, Component B- 2.5 kg)

Colour

Part A - Off white thixotropic paste, Part B - Light yellow paste.

Coverage

Approx - 4.65 kg/sqm per 3 mm of thickness.

Note : Ensure all surfaces are clean, smooth and plum, levelled, free of defects, and without undulations for maximum coverage.

Technical parameters

Physical Color	White
Resin	Paste form
Hardener	Paste form
Chemistry	PU blend with epoxy reaction resin adhesive
Substrate	Cementitious, RCC, plywood, tile on tile, drywall, metal, PVC, rubber, linoleum, epoxy waterproof, PU waterproofed surface, Bitumen surface
Tiles	Ceramic, vitrified, glass mosaic, impregnated stone, engineered stone, natural stone, glass tile, mirror & PU coated glass
Application	No spacer required if adequate construction joints are provided as per industry standards Open time and pot life larger format tile & stonefixing advantage in terms of fixing
Pot life	more than 90 mins
Open time	more than 45 mins
Adjustability time	more than 45 mins
Shelf life	24 months
Mixing Ratio	1 : 1 by weight (Component A + Component B) 1.2 : 1 by volume (Component A + Component B)

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Technical standards and performance ISO 13007 & EN 12004

Classification	Property	Requirement	DONCRETE- TA-06-PU
R2 – Improved adhesives (additional characteristics)	Shear adhesion strength after thermal shock	$\geq 2 \text{ N/mm}^*$	$> 3 \text{ N/mm}^*$
T – Slip resistance	Vertical slip resistance	$\leq 0.5 \text{ mm}$	No slip

Shelf Life

2 years from month and year of manufacturing, for unopened buckets, stored in dry condition.

Storage

Store in a cool and dry place

Disclaimer

The user should determine the usability of the product for its intended use. Our products are manufactured under the **Don Building Chemical** quality standards, and subjected to strict quality control procedures. Since the company has no control over site conditions and installation procedures, the company will not be responsible under any circumstances for any loss, damage or liability from incorrect usage.

TECHNICAL COLLABORATION WITH



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