

RJSFAVICRETE TA-05 Premium Floor and Wall Tile Adhesive
All Kind of Tiles and Stones for Exterior Wall & Floor



Multipurpose highly polymer modified and very highly deformable adhesive for installation of very large format tiles on most of the substrates to accommodate movements. It offers exceptionally good handling properties with good sag and slump resistance. It can be applied up to 15 mm bed thickness.



Application

A multipurpose high fibre polymer modified adhesive for interior and Exterior installation of all kind of Tiles and Stones.

RjsFavicrete TA-05 Multipurpose Floor and wall Tiles and Stones Adhesive is designed to mix with water and has a convenient open time with high adhesion & workability.

Features/Benefits

- Higher deformability than standard adhesive.
- High strength with high polymer modification
- Extended open time
- Non sag & non slump formula for very large format tiles in wall and floor systems
- Good resistance against crack propagation
- Good impact resistance-provides cushion effect to tiles & stones
- Exceeds IS 15477-2019, Type4/C2TES2 Adhesive standards.
- Can be used up to Maximum 15 mm bed thickness.

Suitable Tile Types

- Very large formattlies
- Vitreous, semivitreousornon-vitreous; ceramic; quarry,cement body tile
- Brick
- Cement based precastterrazzo
- Natural stone tile of very large format

Substrates

- Concrete& Concrete Masonry
- Shear wall Concrete (MIVON, etc.), VDF, Precast concrete
- Cement Mortar Beds
- Cement Plaster
- Ceramic tile, Vitrified Tile and Natural Stone
- Glass mosaic tile – Paper faced
- Brick Masonry
- Cement Backer Board**
- Cement Terrazzo

IS 15477:2019: Type4/C2ETS2

Technical Data

Performance Properties:

RjsFavicrete TA-05 Adhesive mixed with water

Applicable Standards: IS 15477:2019

IS 15477: Type -4		
Property: Test Method	Requirement	Typical Values
Shear Adhesion strength		
Dry Conditions (28 days) – Annex B (Clause 5.2)	≥ 1.50 N/mm ²	2.00 – 3.00 N/mm ²
Heat Ageing Conditions (14 Days Std + 14 Days Oven) – Annex B (Clause 5.2)	≥ 1.00 N/mm ²	1.30 – 2.00 N/mm ²
Wet Conditions (7 Days Std + 21Days Water) – Annex B (Clause 5.2)	≥ 1.00 N/mm ²	1.30 – 1.55 N/mm ²
Tensile Adhesion Strength		
Dry Conditions (28 days) – Annex A (Clause 5.1)	≥ 1.50 N/mm ²	1.75 – 2.25 N/mm ²
Wet Conditions (7 Days Std+ 21Days Water) – Annex A (Clause 5.1)	≥ 1.00 N/mm ²	1.50 – 1.75 N/mm ²

The Adhesive mortar conforms to IS 15477: 2019, C2 TE S2/ Type 4 Adhesive

Packaging: 20kg bags

Colour: Grey / White

Coverage details (per 20kg bag):

Trowel Size	Average Bed Thickness	Minimum Coverage	Maximum Coverage
6 x 6 mm Square Notch	3 mm	55 ft ² /5.48 m ²	61 ft ² /5.67 m ²
9 x 9 mm Square Notch	4.5 mm	36 ft ² /3.35 m ²	40 ft ² /3.71 m ²
12 x 12 mm Square Notch	6 mm	28 ft ² /2.60 m ²	31 ft ² /2.88 m ²
18 x 18 mm Square Notch	9 mm	18 ft ² /1.67 m ²	20 ft ² /1.86 m ²
6 mm surface levelling + 12 x 12 mm Square Notch	12 mm	14 ft ² /1.30 m ²	16 ft ² /1.49 m ²

*Coverage will vary depending on type and size of tile, substrate smoothness and unevenness

Working Properties at 70° F (21°C)

RjsFavicrete TA-05 Adhesive mixed with Water

Open Time	30 minutes
Adjustability Time	45 minutes
Pot Life	4 hours
Time to Foot Traffic	20 - 28 hours

Specifications are subjected to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

INSTALLATION

To achieve a successful installation of very large format/ thin tiles, adhere to the following recommendation:

- Proper surface preparation
- Proper material mixing & application
- Use of a proper edge-leveling system
- Beating of tile into mortar bed using a Rubber Mallet

Surface Preparation:

All surfaces should be between 50°F(10°C) and 100°F(38°C) and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, laitance, concrete sealers or curing compounds.

Key to have easy and proper installation of very large format tiles is the preparation of the surface and complete removal of demolding wax powder on the back surface of the tile. Should there be a fiber mesh present on the back surface of the tile, ensure that it is completely removed before proceeding with the installation using RjsFavicrete TA-05.

Before installation on floor with Floor flatness: While installing on floor, it is recommended that the substrate has the following:

- Properly prepared substrates should not have more than a permissible variation of 1/8" in 10 feet (3 mm in 3.05 m) from the required plane, nor more than 1/16" in 24 inches (2 mm in 600 mm) when measured from high points in the surface with a straight edge.

Before installation check for Wall flatness: While installing on the wall, it is recommended that the substrate has the following:

The prepared substrates shall have no more than a permissible variation of 1/8" in 10 feet (3 mm in 3.05 m) from the required plane; nor more than 1/16" in 24" (2 mm in 60 cm) when measured from high points in the surface with a straight edge.

The surface flatness is essential as a mild impact on the uneven surfaces of the tile can result in the cracking of very large format/ thin tile.

Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28* days old before installation of very large format tiles.

Bonding to Concrete Surfaces:

Concrete or plaster must be fully cured and must accept water absorption. Test by sprinkling water on various areas of the substrate. If water is absorbed, then a good bond can be achieved; if water beads, it indicates surface contaminants and hence loss of adhesion may occur. Contaminants should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a coarse finish to enhance the bond. Smooth concrete slabs must be mechanically abraded to achieve an improved bond with the adhesive mortar.

Application of Product:

Bonding to Lightweight Cementitious Systems:

Lightweight under layments must have obtained sufficient compressive strength before installation of the large format tiles. The underlayment must be sufficiently dry and properly cured to the manufacturer's specifications for permanent, non- moisture permeable coverings. Surfaces to be tiled must be structurally sound and subject to deflection not exceeding current industry standards. Surfaces shall be free of all grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other foreign matter.

Bonding to Cutback Adhesive:

The hardened adhesive parts must be removed, as they reduce mortar bond strength to cement surfaces. Never use adhesive removers or solvents, as they soften the adhesive and may cause it to penetrate the concrete. Adhesive residue must be wet scraped to the finished surface of the concrete. To determine desirable results, do a test bond area before starting the installation process.

Movement Joint Placement:

Movement joints are required for perimeters and other changes of plane in all installations. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Do not cover expansion joints with thin set mortar.

Material Preparation & Application to the tile:

Mixing Procedure:

Place clean, potable water into a clean mixing bowl. Add **RjsFavicrete TA-05** powder into the mixing bowl. Use approximately 5.5 – 6 L of water for 20 kg of powder. Use a low-speed paddle drill mixer to get a smooth, paste-like consistency. Let the mixture slake or stand 5-10 minutes; stir again and use. Stir occasionally, but do not add more water. When properly mixed, troweled ridges will stand without slump.

Mixing Ratios:

Mix 5.5-6 L clean water into 20 kg bag of mortar.

a) Tile/Stone

Use a properly sized notch trowel to ensure proper coverage under tiles. Using the flat side of the trowel, apply a skim coat of mortar to the surface. With the notched side of the trowel held at a 45° angle, apply additional mortar to the surface, combing in one direction. Press the tile firmly into place in a perpendicular motion across ridges, moving back and forth. The perpendicular motion flattens ridges and closes valleys, allowing maximum coverage. For all large format tiles, back buttering is mandatory. With some tile, back-buttering is advisable. If the material has skinned over (not sticky to the touch), recomb with the notch trowel; if too dry, remove and replace the dry material with fresh material. Adhesive mortar should not be used to fill low spots in the flooring. The mortar thickness should not exceed the specified range. Ambient temperature should be maintained above 50° F (10° C) or below 100° F (38° C) for 72 hours to achieve a proper bond.

B) Paper faced Glass Mosaic tiles

The **RjsFavicrete TA-05** adhesive shall be applied to the surface to be tiled with a notched trowel using a scraping motion to work the adhesive into good contact with the surface to be covered. Notch trowel with notches of approximately 4 mm is recommended to get a bed thickness of 1.5-2 mm. A v-notch of 3mm also can be used to get a bed thickness of 1.5 mm. Apply only so much that it can be covered with tile within 10-15 minutes or while the adhesive surface is still tacky. The Glass Mosaic tiles shall then be set in place and beaten gently with mallet or grouting float to ensure 100% full bedding. Tiles shall be aligned to achieve uniform joints and then allowed to set until firm.

After the tiles are set firm, the face of the sheets of front paper-mounted glass mosaic tiles shall then be dampened, and the face mount paper can be removed.

NOTE: All glass mosaics with mesh backing should be installed using Resin based adhesive like **RjsFavicrete TA-05**.

specific product Technical Data Sheet for detailed recommendations.

For all stones with a back-protection mesh, it is crucial to remove the mesh first and remove the epoxy layer by light grinding to ensure a perfect bond with the adhesive.

NOTE TO THE SPECIFIER AND INSTALLER:

Check if the adhesive mortar chosen is the right mortar for the installation of the tile based on the following:

- Type of Substrate
- Size of Tile
- Type of Tile
- Area of Application

While installing tile/stone on the external walls and floors, it is essential to provide the spacer joints by creating spaces between the tiles/stones.

The exterior tile/stone installations are provided with joints (spaces) on the periphery of the area without allowing the tile/stone to be bound by the peripheral masonry work or plaster.

HOT & COLD WEATHER TILING:

* Please refer technical document on Hot & Cold weather tiling

Grouting:

Grout installation shall be commenced after a minimum of 24-48 hours of curing time at 70°F (21° C). Grout with RjsFavicrete TA-05 Sanded with RjsFavicrete-100 Epoxy Grout.

For maximum stain resistance of Internal spacer joints applications, use RjsFavicrete-100 Epoxy Grout. For

maximum stain resistance of External spacer joints applications, use RjsFavicrete-100 Epoxy Grout which can accommodate movements and is UV resistant.

Note: Adhesives and Grouts are not a replacement for waterproofing tiled areas. In case of waterproofing requirements, choose an appropriate waterproofing membrane.

Use of a mechanical edge-levelling system
Mechanical edge levelling systems or clamps will significantly assist in installing large format or thin body porcelain tile to reduce the effects of lippage. These mechanical clamps help to align the edges of the tile and, in many cases, minimise lippage to zero.

Beating of tile into mortar bond coat.

Lightly beat the tile's surface with an orbital sander to ensure good contact. Start in the centre of the tile and work to the outer edges. If the above is not available, use a rubber mallet and slowly tamp on the surface.

Do not apply excess downward pressure to the vibrator. Instead, allow it to float across the surface of the tile.

Cleaning of equipment:

Clean all tools with water before the material dries.

Storage:

Store in a cool, dry area.

CUSTOMER CARE

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