



Roka Tile Bond

General Purpose & Non-Shrink Cementitious Tile Adhesive

Roka Tile Bond is a one-pack premixed adhesive used as thin bed tile adhesive for permanent fixing of ceramic tiles. It is ready to use with the addition of water and suitable for use in hot and tropical weather conditions.

Uses & Advantages:

- Single component.
- Easy to mix and use.
- Excellent adhesion to concrete, cementitious mortar, stone, bricks.
- Can be applied directly on cement screeds, concrete, or lime mortars
- Excellent bond strengths

Areas of Application:

- Suitable for bonding high absorption ceramic tiles.
- Suitable for floor and wall applications.
- Indoor application without primer over cementitious substrates
- Excellent pot life
- Non-toxic.



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Technical Data

Appearance	Grey Powder
Chemical Base	Cementitious Powder
Maximum Grain Size	0.8mm less than 1%
Mixing Ratio	5 liters of water per 20 kg bag 25% Water by weight of the powder.
Fresh Mortar Density	~1.9 kg/l
Coverage	The consumption depends on the surface profile, the size of tiles and the placing technique. 4.5 - 6.5 m ² at 2-3mm thickness per 20 Kg bag
Open Time	~30 minutes at 25°C
Pot Life	60 minutes at 30°C
Substrate Temperature	5°C - 35°C
Ambient Air Temperature	5°C - 35°C
Curing	Not required in normal temperature conditions
Time for Heavy Traffic	Minimum 24 hours
Shear Bond Porcelain tiles – 28-day cure (ANSI-118.1)	245 psi (1.7 MPA)



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Shear Bond Porcelain tiles – water Immersion (7/7) (ANSI-118.1)	155 psi (1.1 MPA)
Compressive Strength (ANSI-118.4)	2250 psi (15.5 MPA)
Shelf Life	Up to 12 months from date of production when stored in cool & dry area away from direct sunlight in an unopened condition
Storage Conditions	Store in a dry area in original packaging between 5°C and 35°C. Protect from direct sunlight

Surface Preparation:

Preparing the surface properly is crucial for ensuring a strong bond when applying tile adhesive.

Clean the Surface: Ensure the surface is clean, dry, and free from any dust, dirt, grease, or old adhesive. Use a vacuum and a damp sponge to remove any debris.

Level the Surface: For walls, use a spirit level to check for any uneven areas. For floors, ensure the surface is flat and even. Any high spots should be sanded down, and low spots filled with a suitable leveling compound.

Roughen the Surface: If the surface is too smooth, the adhesive might not bond well. Using suitable mechanical methods such as abrasive blast cleaning; high pressure water jetting at sufficient pressure (minimum 150 bar) and volume; scabbling or needle gunning. On “new” or smooth faced concrete, surfaces should be sand blasted.



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Finally, saturate the absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry (SSD) condition.

Mixing:

Roka Tile Bond comes ready to use with the addition of water. Add 25% of cold and clean water by weight of the powder in a suitable mixing container and mix for around 3 minutes until a homogenous mixture is obtained. Use a blender at 500 rpm maximum; do not mix at a faster rate because of mechanical strength decay of the cured product.

Do not add water more than the recommended amount and only mix as much material as can be used within the open time of ~30 minutes (at 25°C).

Application:

Roka Tile Bond is applied using a notched trowel. Apply the material directly to the concrete surface and spread evenly at 2-3 mm thickness. The amount of product should be enough to ensure complete wetting of the tiles' rear. Press tiles firmly into Innova Tile Bond with a twisting action to ensure optimum adhesion and beat using rubber hammer or beating block to adjust level. Only apply to an area that can be filled within 15 – 30 minutes. If the adhesive is not sticky, remove and replace it with fresh adhesive. Do not wet with water the adhesive already applied; it damages the adhesive.



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Curing & Setting Time:

The setting times of material is significantly affected by the temperature. In case of low temperature, protect completed work for an extended time period. In case of high temperature, apply to dampened surfaces and protect freshly spread adhesives. Where ambient conditions may lead to rapid surface drying suitable water-based curing compound is recommended.

Health and Safety:

Roka Tile Bond is a cement-based product and is alkaline which may cause dermatitis. The use of gloves and eye protection is advised. Immediately wash with water in the event of contact with skin. Splashes into eyes should also be washed immediately with plenty of clean water and medical advice sought thereafter.

Cleaning:

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and



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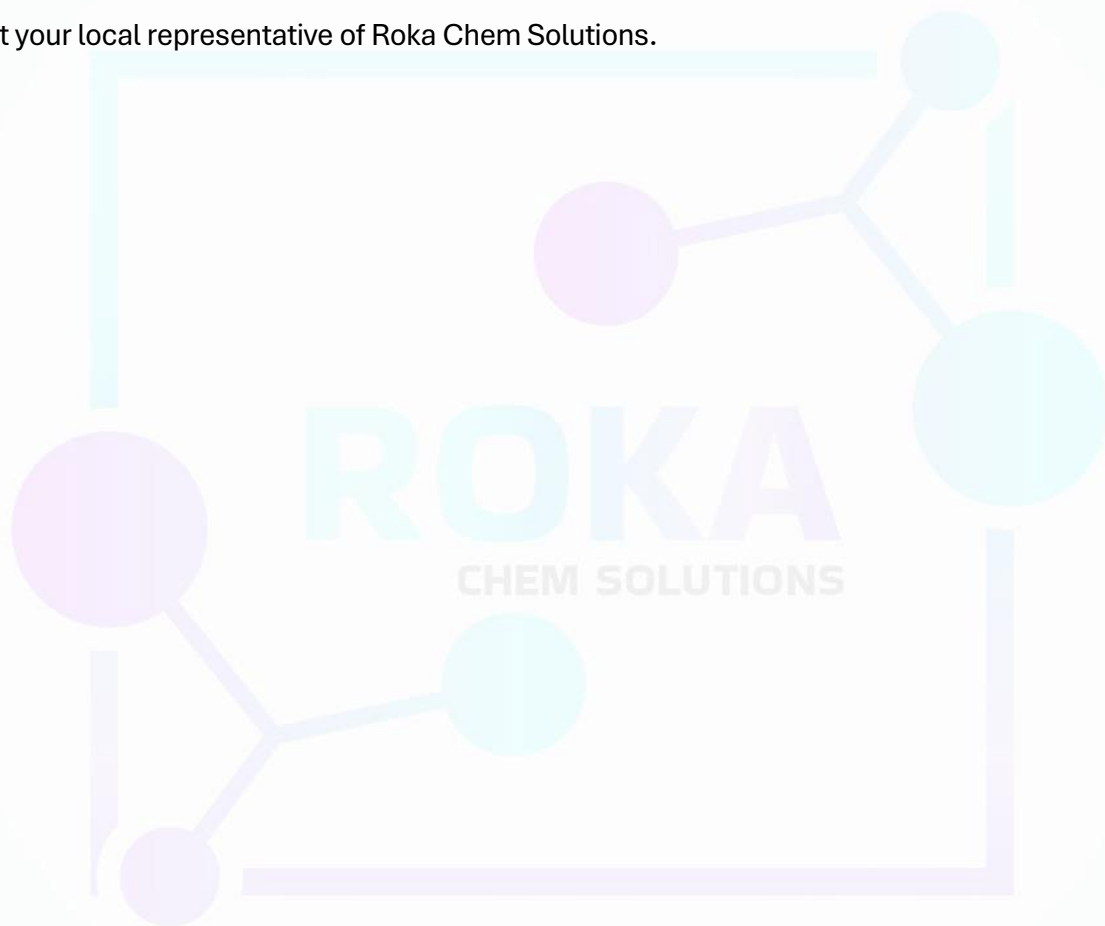


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development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

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