



ECO MORTAR

Technical Data Sheet

Effective Date: November 25, 2024

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ECO-475 GRANITE PLUS ADHESIVE



1. Product Description:

ECO-475 is a premium instant cement for installing large granite tiles with a maximum size of 120 x 120 cm on indoor walls and floors. It is made from a blend of Portland cement, silica sand, filler, and crosslinking polymers. It has high adhesion, is durable, and is easy to apply. Simply mix with water for a ready-to-use mortar, and use substrates in Saturated Surface Dry (SSD) condition for optimal results.

2. Features & Uses:

- Practical: Simply add water for an easy-to-use, ready-mixed application.
- High Adhesion: Provides optimal bonding strength for granite and other tiles.
- Durable: Resistant to expansion and contraction, ensuring stable adhesion during temperature changes.
- Longer Working Time: Offers an open time of 30 minutes.

3. Specifications:

Product	Standard Parameters	Large Format Granite Adhesive
Product		ECO-475
Color	-	Grey
Adhesive	-	Portland Cement
Aggregate	-	Silica Sand
Filler Material	-	Aggregate <0.6 mm
Additives	-	Additional materials to improve workability, adhesion, durability, and consistency
Density	>1.6 kg/L	1.99 kg/L
Application Thickness	± 3 mm	± 3 mm
Water Requirement	4 - 6 L / 25 kg sack	4 - 6 L / 25 kg sack
Compressive Strength (BS EN 1015-11)	>3 N/mm ²	11.54 N/mm ²
Adhesive Strength (BS EN 1015-12)	>0.5 N/mm ²	1.16 N/mm ²
Moisture Content (BS EN 1015-19)	<1%	0.30%
Open Time	30 minutes	30 minutes



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Slip Resistance	<0.5 N/mm ²	0.09 mm
Spreadability	-	± 5 m ² / 25 kg sack / 3 mm

4. Instructions for use:

Application Preparation

1. Prepare a stable and level substrate. Set up guidelines to ensure a straight and even tile layout.
2. Clean the base, removing any loose debris or contaminants. Before installation, dampen the installation surface and the back of the tiles.

Mixing Water and Powder

Pour water into the mixing container with a ratio of 1 : 5 then slowly add the ECO – 475 powder (25 Kg).

Mixing Process

Stir the mixture with a hand mixer or trowel until a smooth, consistent paste is achieved.

Application Process

1. Granite is installed manually using a notched trowel with an adhesive mix spacing thickness of about ±3 mm, depending on the size of the ceramic and the flatness of the substrate surface.
2. It is recommended to use the double buttering technique according to the need for dispersion to ensure maximum adhesion.

5. Cleaning of the equipment after application :

Clean all tools and the work area with clean water immediately after use (within 20 minutes).

6. Storage Rules :

1. Store in a cool, dry place, avoiding freezing temperatures.
2. Keep away from direct sunlight or excessive heat.
3. Avoid direct contact with the floor.
4. Do not store in a damp area or areas potentially exposed to water.
5. Keep out of the reach of children.

7. Expiration Period :

8 months when stored in unopened packaging in a dry room. Storing on pallets is recommended.