



ECO MORTAR

Technical Data Sheet

Effective Date: November 25, 2024

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ECO-485 BIG SLAB ADHESIVE



1. Product Description

ECO-485 is a premium instant mortar for installing extra-large granite and marble slabs on walls and floors, both indoors and outdoors. Formulated with a blend of cement, silica sand, filler, and crosslinking polymer, ECO-485 offers extraordinary adhesion and maximum strength to prevent granite from sagging. The surface can be used within 24 hours, making it ideal for high-traffic areas. It meets EN 12004 (C2TES1) standards and is highly recommended for large granite (maximum size 160 x 320 cm).

2. Features & Uses:

- Practical and ready to use, just add water without any other additives.
- Extra-strong adhesion makes it ideal for large granite, homogeneous, porcelain tile, and natural marble on walls and floors.
- Open time of up to 30 minutes for easier application.
- Flexible and resistant to expansion-contraction and substrate movement, making it suitable for indoor, outdoor, and submerged areas.

3. Specifications:

Product	Standard Parameters	Big Slab Adhesive
Product		ECO-485
Color	-	Grey
Adhesive	-	Portland Cement
Aggregate	-	Silica sand and marble
Filler Material (Filler)	-	Aggregate <0.85 mm
Additives	-	Additional materials to improve workability, adhesion, durability, and consistency
Density	>1.6 kg/L	2.00 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	11.72 N/mm ²
Adhesive Strength (BS EN 1015-12)	>1 N/mm ²	1.60 N/mm ²



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Moisture Content (BS EN 1015-19)	<1%	0.30%
Open Time	30 minutes	30 minutes
Adhesive Strength Pull Off	>1 N/mm ²	N/mm ²
Slip Resistance	<0.5 mm	0.04 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 ECO-485 powder (25 Kg).

Mixing Process

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

Application Process

1. Install the granite slabs manually using a notched trowel with an adhesive bed thickness of approximately ±3 mm, depending on the tile size and substrate evenness.
2. The double-buttering technique is recommended to ensure maximum adhesion and coverage.

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.