



# ECO MORTAR

## Technical Data Sheet

Effective Date: November 25, 2024

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## ECO-400 GRANITE TILE ADHESIVE



#### 1. Product Description:

ECO-400 is an instant cement designed for bonding granite tiles (homogeneous tiles) and natural stone to walls and floors for sizes up to 60 x 60 cm. ECO-400 is a high-quality mortar composed of a homogenous blend of cement, selected silica sand, fillers, and crosslinking polymers to ensure superior product performance.

#### 2. Features & Uses:

- High adhesion and easy to apply, ensuring convenience and optimal results.
- Prevents wall tiles from sagging during installation resulting in a neater finish.
- Prevents floor tiles from lifting (popping), ensuring a safe installation.

#### 3. Specifications:

Product	Standard Parameters	Granite Tile Adhesive
Product		ECO-400
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	2.09 kg/L
Application Thickness	± 3 mm	± 3 mm
Water Requirement	5 - 7 L / 25 kg sack	5 - 7 L / 25 kg sack
Compressive Strength (BS EN 1015-11)	>3 N/mm <sup>2</sup>	7.67 N/mm <sup>2</sup>
Adhesive Strength (BS EN 1015-12)	>0.5 N/mm <sup>2</sup>	0.921 N/mm <sup>2</sup>
Moisture Content (BS EN 1015-19)	<1%	0.30%
Open Time	30 minutes	30 minutes
Slip Resistance	<0.5 mm	0.3 mm
Spreadability	-	± 5 m <sup>2</sup> / 25 kg sack / 3 mm



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#### 4. Instructions for use:

##### Application Preparation

1. Prepare a stable and level substrate. Set up guidelines to ensure an even and orderly tile installation.
2. Clean the substrate from all debris and contaminants, then dampen both the installation surface and the back of the tiles before application.

##### Mixing Water and Powder

Pour water into the mixing container in a ratio of 1 : 4 then slowly add ECO-400 powder (25 Kg).

##### Mixing Process

Stir the mixture of water and powder until smooth using a *hand mixer* or cement spoon.

##### Application Process

1. Ceramic installation is done manually with a notched trowel as usual.
2. The recommended thickness of the adhesive mix spacing is  $\pm 3$  mm.

#### 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.