



ECO MORTAR

Technical Data Sheet

Effective Date: November 25, 2024

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ECO-420 CERAMIC TILE ADHESIVE



1. Product Description:

ECO-420 is a high-quality instant cement designed for bonding ceramic tiles to walls and floors for sizes up to 60 x 60 cm. Composed of a blend of cement, silica sand, fillers, and crosslinking polymers, this product offers strong adhesion and prevents tiles from detaching. Featuring modified polymer technology, ECO-420 is easy to use as a ready-to-mix mortar that only requires the addition of water, making it a practical solution for installing porous tiles.

2. Features & Uses:

- Easy and practical to apply, just add water without any other additives.
- It has a strong adhesion, which simplifies the installation process and ensures optimal results.
- Effectively prevents tiles from detaching or lifting (popping), providing excellent durability.
- A long open time provides greater flexibility during the application process.

3. Specifications:

Product	Standard Parameters	Ceramic Tile Adhesive Ceramic Wall & Floor Adhesive
Product		ECO-420
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	1.69 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 ²	7.45 N/mm ²
Adhesive Strength (BS EN 1015-12)	>0.3 N/mm ²	0.51 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 mm	0.4 mm
Spreadability	-	± 5 m ² / 25 kg sack / 3 mm

4. Instructions for use:

Application Preparation

1. Prepare a stable and level base. Set up guidelines to ensure a straight and even tile layout.
2. Clean the substrate, 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 : 4 then slowly add the ECO-420 powder (25 Kg).

Mixing Process

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

Application Process

1. Install the tiles manually using a notched trowel, as is conventional.
2. The recommended thickness for the adhesive mortar is approximately ± 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.