



ECO MORTAR

Technical Data Sheet

Effective Date: **November 25, 2024**

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ECO-460 HYDRYD TILE ADHESIVE



1. Product Description

ECO-460 is a high-quality instant cement specifically designed as a tile adhesive for wet or submerged areas, such as bathrooms, swimming pools, and basements, for sizes up to 120 x 120 cm. It is made from a blend of cement, selected silica sand, fillers, and crosslinking polymers.

2. Features & Uses:

- Ideal for wet or submerged areas like bathrooms, swimming pools, and basements.
- Suitable for both interior and exterior applications.
- Free of hazardous or toxic substances, making it environmentally friendly.
- Features an attractive white colour, perfect for installing mosaics and marble.

3. Specifications:

Product	Standard Parameters	Submerged Area Tile Adhesive
Product		ECO-460
Color	-	White
Adhesive	-	White 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	1.98 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	11.35 N/mm ²
Adhesive Strength (BS EN 1015-12)	>0.5 N/mm ²	1.42 N/mm ²
Moisture Content (BS EN 1015-19)	<1%	0.30%
Open Time	30 minutes	30 minutes
Adhesive Strength Pull Off	>0.5 N/mm ²	0.995 N/mm ²
Slip Resistance	<0.5 mm	0.07 mm
Spreadability	-	± 5 m ² / 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 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 : 5 then slowly add ECO-460 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.
2. The recommended adhesive mortar thickness 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.