



Technical Data Sheet

ECO-380 THIN BED ADHESIVE



1. Product Description:

ECO-380 is a premixed mortar that serves as an adhesive for laying lightweight bricks with an application thickness of ± 3 mm. This high-quality product is a homogeneous mixture of Portland cement, selected silica sand, fillers, and crosslinking polymers.

2. Features & Uses:

- Easy and ready to use.
- High adhesion strength.
- Faster application saves time and cost.
- Produces a neater finish with high bond strength.

3. Specifications:

Product	Standard Parameters	Thin bed Adhesive
Product		ECO-380
Color	-	Grey
Adhesive	-	Portland Cement
Aggregate	-	Silica Sand
Filler Material	-	Aggregate <0.6 mm
Additives	-	Additional materials to improve workability, adhesion and consistency
Density	>1.6 kg/L	1.61 kg/L
Application Thickness	± 3 mm	± 3 mm
Water Requirement	8 - 10 L /40 kg sack	8 - 10 L / 40 kg sack
Compressive Strength (BS EN 1015-11)	>3 N/mm ²	5.23 N/mm ²
Adhesive Strength (BS EN 1015-12)	>0.1 N/mm ²	0.79 N/mm ²
Moisture Content (BS EN 1015-19)	<1%	0.30%
Open Time	30 minutes	30 minutes



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Effective Date: **November 25, 2024**

Spreadability	-	Spreadability (Application thickness \pm 3 mm): (AAC Block thickness) 7.5 cm = \pm 13.4 m ² / 40 kg sack / 3 mm 10 cm = \pm 10 m ² / 40 kg sack / 3 mm 12.5 cm = \pm 8 m ² / 40 kg sack / 3 mm 15 cm = \pm 6.7 m ² / 40 kg sack / 3 mm 20 cm = \pm 5 m ² / 40 kg sack / 3 mm
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4. Instructions for use:

Application Preparation

1. Clean the surface of any debris or contaminants that could weaken the adhesion.
2. Ensure the surface is sufficiently dry for optimal bonding.

Mixing Water and Powder

Pour water into the mixing container in a ratio of 1 : 4 then slowly add ECO-380 powder (40 Kg).

Mixing Process

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

Application Process

1. Install adequate guidelines to ensure the installation is level and straight.
2. Install the lightweight bricks manually using a standard lightweight brick trowel.
3. The recommended thickness for the adhesive 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:

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