

Euromix® AAC Adhesive

Euromix® AAC Adhesive is an off-white cement based adhesive which has been specially formulated for bonding lightweight AAC panels and blocks supplied by Harpro Australia (and other manufacturers/suppliers).

1. Product Summary:

Euromix® AAC Adhesive is a White Cement based adhesive powder designed for use as the bonding cement between autoclaved aerated concrete (AAC) panels and blocks.

Applied by hand, using a notched trowel, Euromix® AAC Adhesive develops high tensile strengths after curing.

Product Name	Euromix® AAC Adhesive
Code	AACADHES
Packaging	Dry packed in 20kg composite paper / plastic / paper bags
Appearance	In the bag and before the addition of water, Euromix® Render appears as an off-white mixture of finely ground, cement like materials. After application and drying Euromix® Render finishes to an off-white colour with a fine texture.

2. Product Features:

Workability additives	The wet material ‘flows’ well on hawks, trowels and other tradesman’s tools making it easy to apply and finish off.
Engineered and factory controlled formulation	The proportions of cement, sand and chemicals are consistently maintained at levels designed to give excellent adhesion.
Specially formulated components	Special modifiers in the mix ensure that the Adhesive remains workable for up to 5 hours but cures sufficiently such that it can be over-coated 24 hours after application (in normal weather conditions).

3. Typical Uses:

Euromix® AAC Adhesive is suitable for use as an adhesive between AAC elements.

4. General Performance Guidelines:

Weather	Excellent weather resistance.
Temperature	Performs well after hydration in temperatures from – 4 to + 60°C
Abrasion	Good resistance to abrasion after curing.
Solvents	Sensitive to exposed aromatic hydrocarbons, acetone and strong solvents.

5. Some Key Properties:

Colour	Off-white
Mixing Ratio	5L/20 Kg Powder
Pot Life	5 hours
Open Time	30 min (@25°C)
Drying Time	24 hours
Tensile Strength	1.56 MPA (3 days)
Specific Gravity	1.27 Kg/M3 (Bulk)
Shelf life	12 months in unopened, properly stored bags. Once opened the entire contents of the bag should be used immediately.

6. Application Guidelines:

6.1 AAC Surface Preparation

Use a hard brush to remove any loose particles from AAC panel or block. Clean off dust, oil, grease and all loose contaminating materials or coatings. Ensure surfaces are dry with no residue or permanent dampness.

Ensure that the AAC elements have been installed in accordance with the manufacturer’s specifications.

6.2 Mixing the Adhesive

1. Add approximately 5L of clean potable water to a clean plastic bucket.
2. Gradually add 20kg of Euromix AAC Adhesive to the water whilst mixing on low speed with an electric paddle mixer to disperse the powder into a creamy, lump free consistency.
3. Allow the mix to stand for 3-5 minutes prior to use.
4. Do not remix or add any additives to the mix.
5. Do not reuse any spilled material.

6.3 Application

1. Follow the Harpro (or other) specifications and instructions for installing the AAC.
2. Apply the Euromix AAC Adhesive to the horizontal and vertical surfaces of the AAC panel or block with a 6 - 12mm notched trowel.
3. Apply the Euromix AAC Adhesive to a maximum of 6 blocks or 1 panel at one time.
4. Position the AAC panels or blocks by gently using a rubber mallet to secure them into position. Use a spirit level to check the level and alignment of blocks.
5. The thickness of the Euromix AAC Adhesive joint should be approximately 2-3mm.
6. The mixed material is useable for up to 5 hours @ 25°C and 50% relative humidity.

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6.5 Curing

The Euromix AAC Adhesive will cure after 24 hours at 25°C after which it can be over coated with Euromix Renders. Do not apply in temperatures below 10°C or above 35°C. Application in conditions below 10°C will extend the drying time whilst application in conditions above 35°C will shorten the drying time and premature curing of the adhesive could result in the adhesive not reaching a full bond.

6.6 Coverage:

Coverage will vary depending on the condition of the surface and site conditions. As a guide, 20kg of Euromix AAC Adhesive will fix 25m² of 75mm AAC panel.

6.7 Clean Up:

Tools should be cleaned with water before the Adhesive has cured. Any spillage or splashes should be removed immediately as the Adhesive is extremely difficult to remove once cured and is likely to stain.

Collect waste in containers and dispose of as trade waste in accordance with the site and local authority guidelines. Keep the powdered and cured Adhesive out of sewer or storm water drains.

7. Health & Safety:

The International Agency for research on cancer (IARC) has classified "Crystalline Silica" as a Human Carcinogen.

Keep exposure to dust as low as possible, to minimise health problems such as skin, eye and respiratory irritation. Avoid repeated skin contact with both the dry and the wet mixtures.

Carry out work in such a way to minimise the exposure to dust and repeated skin contact. Use mechanical ventilation or extraction to minimize exposure where dust will be generated whilst handling the render. Work areas should be cleaned regularly by wet sweeping or vacuuming.

If preparation of the substrate to be rendered requires cutting or grinding of masonry then ensure that goggles, respirators and hearing protection are available and that they are worn.

Precautions in Use	Keep dust levels to a minimum. Use masks if mixing large amounts.
Safety & Precautions	The use of gloves and goggles is recommended. Protect eyes as grit in product may scratch and irritate.
First Aid	If swallowed give glass of water to drink and seek medical advice. If in eyes flush thoroughly with clean water, holding lid open to ensure any trapped product maybe flushed away. If on skin, remove contaminated clothing and wash skin with soap and water. If inhaled, unlikely due to consistency of product, remove person to fresh air.

8. Limitations in Use:

Do not apply in wet conditions or when rain or frost is imminent or in temperatures outside the range of 10C and 35C. Substrate moisture must be less than 15%.

Product should not be subjected to hydrostatic pressure, continual or excessive rising damp, movement and vibration.

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Any building movement that results in visible cracking of the building claddings / linings will also be sufficient to cause cracking of the Adhesive. Follow the AAC substrate manufacturer's specifications and building designers directions for the management of material and building movement.

9. Handling, Storage & Transport:

Handling	Euromix® AAC Adhesive is supplied in 20 Kg bags - recognised local safe lifting methods should be used.
Storage	Store in a secure dry area, protected from sources of excessive heat, frost and moisture.
Shelf Life	Approximately 12 months in unopened bags.

10. Contact Point:

Supplier: Euroset Manufacturing Pty Ltd
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The information contained in this product data sheet is typical and does not constitute a full specification, as conditions and specific requirements will vary from project to project. All purchasers and intending users of the products covered in this document must, prior to use, assess and control the risks arising from use of the products, as they relate to their project.

It is recommended that the products covered in this document be applied by building contractors and trades people with the appropriate skill, knowledge and experience to carry out those works, as may be necessary to meet the requirements of the project.

For further information please contact Euroset, via the contact details listed above.