

Euromix® Bond

Euromix® Bond is a water-based, penetrative, acrylic, bonding agent.

Euromix® Bond is used as a cement modifying resin designed to enhance the adhesion and setting characteristics of Euromix® acrylic render products.

1. Product Summary:

Euromix® Bond is an acrylic polymer resin designed to modify the behaviour of cement based renders resulting in enhanced adhesion and setting characteristics.

Euromix® Bond can also be applied as a bonding coat over most substrates.

Product Name	Euromix® Bond
Code	BOND
Packaging	120L Drum, 20L plastic cube & 5L plastic jerry can.
Appearance	Before application Euromix® Bond appears as a slightly milky liquid. After application, as a coating, Euromix® Bond and after drying Euromix® Bond finishes to a slightly opaque (off white) smooth but slightly tacky coating.

2. Product Features:

Water based	Can be applied by roller or spray.
Workability additives	Mixes with water well to form a 'gauge' for renders. Increased adhesion, compressive and chemical strength when used in Euromix® Renders - can also be used with traditional sand / cement render.
Selected polymers	Consistent quality and performance. Can be used to increase the adhesion, flexibility, tensile strength, abrasion and impact resistance for Euromix® Renders and other cementitious plaster mixes.
System component	Developed to be the ideal bonding agent for Euromix® Render with seven (7) year Warranty backing.

3. Typical Uses:

Primary use is as a modifying agent in the mixing water for Euromix® Renders.

Can also be applied over most substrates (as a sealer) including; clay and cement bricks/blocks, pre-cast or site poured concrete, aerated autoclaved cement (AAC), fibre cement sheeting (fc) and expanded polystyrene (EPS).

4. General Performance Guidelines:

Weather	Excellent resistance to cracking and chalking
Water	Good water resistance.
Temperature	Suitable for walls exposed to temperatures up to 60C dry.
Abrasion	Good resistance, especially when coated with Euromix® Flex. Not suitable as a coating in high traffic public thoroughfares.
Solvents	Sensitive to strong solvents

5. Typical Render Properties with Bond Added:

Density	1700 – 1900 Kg / M ³
Compressive Strength	≥ 5 MPa @ 7 days and > 8 MPa @ 28 days
Coverage	@ 4mm approx 3-5 SQM
Shelf Life	1 year under cover away from heat & moisture.

6. Application Guidelines:

6.1 Using Euromix Bond with Euromix® Render:

Euromix® Renders should be prepared with a mixture of Euromix® Bond and water, using a suitable drill or traditional concrete mixer. The required amount of Euromix® Bond and clean, mains supply, water should be prepared in a mixing bucket and then steadily added to the Render powder until it is smooth and lump free.

Bond Ratios

In normal use approximately 4 litres of Bond / water mix is required for 1 bag (20 Kg) of Euromix Render. The bond / water ratio for common substrates / surfaces is;

	Bond	Water
Clay Bricks	1	19
Calcil	1	15
AAC	1	9
Concrete	1	9
FC & EPS Surfaces	1	4
Render	1	19

6.2 Rendering Substrate Preparation

All substrates must be clean, dry and free from any material that may inhibit adhesion (including loose paint, grease, oil, fungus / moss, dirt, friable materials and any mould release agents). New concrete should be allowed to dry for 12-28 days before coating (ensure that the moisture content is less than 15%).

Mask windows and architectural trim elements before applying render. Floor and adjacent walling materials should be protected against spills and splashes by plastic film or similar.

Euromix® Bond

6.3 Mixing of Render

Euromix® Render should be mixed with a ‘solution’ of bonding agent (Euromix® Bond) plus water by mechanical mixer or with a traditional concrete mixer. The required volume of ‘solution’ (Euromix® Bond plus water) should be prepared in a mixing bucket and then steadily added to the Euromix® Render powder until it is smooth and lump free.

This mixture should hold a stiff peak on the hawk. If the mix is too ‘stiff’ or too ‘wet’ it will be difficult to apply and finish – it is also likely that finished strengths will be low. Do not mix more material than can be used within one (1) hour.

6.5 General Guidelines for Application of Render:

Apply Euromix® Render to the surface manually with hawk & trowel. Allow the render to stabilize before levelling and finishing to the desired texture.

Spillage and partially set material should not be re-tempered with water and should be discarded. Tools and equipment should be cleaned with water immediately after use.

Ensure adequate protection from the drying effects of direct sunlight, wind and low humidity or a combination of these elements. Rapid drying of the surface can cause cracking, low strength and a friable render. Do not apply Euromix® Render when temperature will be above 35°C, especially if windy.

Also do not attempt to apply Euromix® Render when the temperature is below 10°C or where the chill factor is high.

Ensure that the curing render is protected from rain, extreme frosts and other sources of excess moisture (e.g.; overflowing gutters and down pipes).

Drying and curing of Render is affected by type, dryness and porosity of the substrate surface, temperature, humidity, ventilation, climate conditions and application technique and therefore the following drying and curing are given as a guide only (*for normal weather conditions, at 25°C and 50% R*);

Surface dry	Four (4) hours.
Recoat with Render	One (1) day.
Texture Coating	Three (3) days.
Paint	Three (3) days for acrylic paints. Twenty-one (21) days for oil / alkyd based paints.

Tools should be cleaned with water before the Render has cured. Any spillage or splashes should be removed immediately as the Render 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 Render 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.

Euromix® Render contains silica so 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

The use of gloves, goggles and overalls is recommended when Euromix® Multi Render is being applied.

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.

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.

9. Handling, Storage & Transport:

Handling	Euromix® Multi Render is supplied in 20 Kg bags - recognised local safe lifting methods should be used.
Storage	Store in a cool / dry area. Protect product from excessive heat, frost, moisture and bag damage.
Shelf Life	Approximately 12 months in unopened bags.

10. Contact Point:

Supplier	Euroset Manufacturing Pty Ltd
Address	13 / 65 Elizabeth Street Wetherill Park NSW 2164
Telephone	(02) 9002 5820
Fax	(02) 9002 5824
Email	admin@euromix.com.au

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.