

Euromix™ FC Formwork Walling System



Euromix™ polymer enhanced cement Renders and full polymer Textures are formulated to provide weather resistant, decorative finishes over fibre cement (FC) covered permanent formwork walling systems.

1. Finishing System Summary:

There are several rendering systems recommended by Euromix™ for finishing over fibre cement (FC) lined permanent formwork systems such as Ritek® (registered to James Hardie) and AFS Logicwall® (registered to CSR).

These render, texture and paint finishing systems have been designed and should be applied in such a way as to;

- Minimise the appearance of minor structural imperfections, misalignment of walls etc.
- Provide a render/texture finish that is sufficiently thick/strong to be resistant to impact forces.

The key components of such systems are summarised as;

- Substrate preparation setting of sheet joints.
- Fixing of PVC corners and trims.
- Base render coat.
- Finishing render coat.
- Texture coat.
- Paint coat - optional.

The alternative paths to achieving the desired finish are summarised in the following document.

2. System Outline:

2.1 Substrate Preparation:

Ensure that all elements to be rendered have been constructed and fixed in accordance with the project plans, specifications and the formwork system as per the manufacturer's recommendations – key items include:

- The concrete strength and moisture content of the finished AFS panel must be within the manufacturer's guidelines.
- Walls should be straight, flat and plumb - all panel joints should be structurally sound with face surface levels on each side of the joint aligned.
- Internal and external corners should be 'true' and well-constructed (unlikely to move or otherwise come apart).
- Identify any areas of substrate that are affected by dust, loose / friable material or adhesion inhibiting materials and concrete splatter – remove or otherwise 'make-good'.

- Identify areas where walls are not straight or where joints between floors are not flush – obtain agreement from project manager on treatment of such areas.
- Locate expansion joints and dampcourses and ensure that they are as per the manufacturer's specifications. Agree on rendering treatment for these with the project manager, since these cannot be bridged by the render finish.
- Agree on the treatment of floor-to-floor junctions, since these are probable sources of cracking and may be treated as expansion joints.
- Mask windows, doors, roofing, flooring and other building elements to protect them.

2.2 FC Sheet Joints:

Sheet joints must be finished in accordance with the instructions detailed in the Euromix™ Patch Coarse Product Data Sheet. The key steps are summarised as follows;

- Evenly fill the joints using Euromix™ Patch Coarse mixed with 10% cement. Then embed 55mm wide alkali resistant fibreglass (FG) mesh tape (non-adhesive) into the patch making certain there is adequate patch below and above the mesh. Once the mesh tape has been embedded, apply a skim coat of Euromix™ Patch to finish off flush with the surface of the FC sheet.
- Lay Euromix™ Patch Coarse into internal corners and bed 100mm wide FG mesh tape into the corner. Apply a skim coat of Euromix™ Patch to finish off flush with the surface of the FC sheet.
- Ensure that excess compound is removed from all edges while material is still wet.

Allow at least 24hrs-curing time for the patch coarse joints (fixings where coated) before applying any other coating.

2.3 Fix PVC Corners & Trims:

Where specified, PVC corners/trims should be installed using Euromix™ Patch Coarse, ensuring they are plumb and aligned with the appropriate sheet surface.

Once the Trims have been embedded in the Euromix™ Patch Coarse, apply a skim coat of the Euromix™ Patch Coarse to finish off flush with the surface of the FC Sheet.

2.4 Base Render Coat:

Euromix offers four different render products for this stage;

Product	Description
Euromix™ FP Render	A medium grained full polymer render formulated for use as a general-purpose base render.
Euromix™ NPS Keycoat Render	A medium grained high polymer strength render formulated for use as a base render for low porosity substrates.
Euromix™ Cream Render	A medium-large grained multi-purpose render that requires the addition of polymer (Euromix™ Bond) in the mixing water.
Euromix™ Render	A small-medium grained multi-purpose render that requires the addition of polymer (Euromix™ Bond) in the mixing water.

Euromix™ FC Formwork Walling System

Euromix™ FP and Euromix™ NPS Keycoat Render are ‘full polymer’ renders designed for substrates such as AFS which require higher levels of adhesion. Both these renders are mixed with water only.

Euromix™ Render and Euromix™ Cream Render require the addition of Euromix™ Bond in the mixing water (1-part Euromix™ Bond to 4 parts water) before applying over the AFS.

Once the Euromix™ Patch Coarse has dried (at least 24 hours in normal conditions), prepare the selected Euromix™ Render product. Apply it to a nominal thickness of 4-6mm using a trowel and straight edge to achieve a true and level finish.

The renderer should make certain he has the correct instructions from the project manager in regards to the treatment of movement joints and dampcourses.

2.5 Finishing Render Coat:

Once the base render coat has dried (at least 24 hours in normal conditions), prepare Euromix™ Render or Euromix™ Cream (with a gauge of 1-part Bond to 18 parts water). Apply this to a nominal thickness of 2mm using a trowel and finish to a smooth float finish.

We recommend using a Euromix™ Texture Coating over AFS permanent formwork walling systems once completed to add further flexibility and a protective coating to the substrate. Optional: When a sponge finish is specified, Euromix™ Skim Coat Render can be sponge finished after floating and made ready for the application of two finishing coats of a good elastomeric membrane paint.

2.6 Texture Coat:

Euromix offers four (4) different texture products for this stage; a fine, medium, coarse and extra coarse. All are designed to provide an attractive sparkle effect appearance, that offers a durable, flexible, water repellent decorative finishing coat with excellent coverage over Euromix™ Renders and other substrates. Please visit our website www.euromix.com.au for further information on our texture coatings.

Before applying the chosen texture, prime the surface with Euromix™ Acrylic Primer which should be tinted to match the colour of the texture. Allow the primer to dry for a minimum 4 hours before top coating.

The texture is trowelled onto the finished render substrate and finished with a plastic finishing trowel, applied in a circular motion to achieve an even textured appearance.

Allow a minimum 24 hours for the texture to dry before applying paint.

2.7 Paint Coat

The finished colour of the texture and the durability of the finish can be enhanced by applying two coats of a good elastomeric membrane paint (tinted to the desired colour) over the cured Euromix™ Texture - ensuring that single wall elements are covered in the same process (‘day joints’ should occur at corners or other break in line of sight). Allow 24 hours between the coats of the elastomeric membrane paint.

3. Product Specific Guidelines:

The instructions for the preparation and application of each Euromix™ product detailed above can be found in the relevant Product Data Sheet.

Please read these data sheets and ensure that the products are used in accordance with the recommendations.

4. Curing:

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 and result in a low strength / friable render and/or texture coatings.

Do not apply Euromix™ Render or Euromix™ Textures where conditions will be above 35°C (especially if windy), nor where the temperature is below 5°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).

5. Limitations in Use:

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

Euromix™ coatings are designed for use as decorative finishes; they are not meant to be used in applications where special strength, movement, hardness or other performance characteristics are required.

Any building movement that results in visible cracking of the building elements (walling, claddings, linings, etc.), will also be sufficient to cause cracking of the decorative finish. This is the case for both potential new and pre-existing building movement cracking.

Decorative render systems, such as Euromix™ Render and Euromix™ Texture Coat Systems, will not hide cracking caused by structural movement and or shrinkage, or expansion of substrates caused by temperature and moisture effects.

Euromix™ products must be applied by building contractors and trades people with the appropriate skill, knowledge and experience to carry out the relevant works.

Euromix Pty Ltd will not accept responsibility for misuse of any of its products discussed in this document.

The information contained in this product guide 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.

For further information please contact Euromix via the contact details listed below;

Supplier	Euromix Pty Ltd ABN 57664946070
Address	31-33 Water Street Strathfield South NSW 2136
Telephone	(02) 9572 9061
Email	contact@euromix.com.au