

# Euromix® FP Render on Polystyrene (EPS)

**Euromix® FP Render is a full polymer acrylic modified cement render formulated to provide weather resistant, decorative finishes over most building material substrates, including Polystyrene (EPS).**

**Manufactured using specially blended mineral fillers and additives, Euromix® FP Render provides excellent crack resistance and a degree of flexibility that is not found in**

Euromix® FP Render is mixed with **water only** and is generally applied as a base coat at thicknesses up to 3-4 mm thick in one coat.

Applied by hand, or spray in one layer, Euromix® FP Render can be floated or sponge finished ready for other renders, texture coats or paints.



<b>Product Name</b>	Euromix® FP Render
<b>Code</b>	RENFP
<b>Packaging</b>	Dry packed in 20kg composite paper / plastic / paper bags
<b>Appearance</b>	In the bag and before the addition of water, Euromix® FP Render appears as an off-white / light grey mixture of finely ground, cement like materials. After application and drying Euromix® FP Render finishes to light grey colour with a slightly rough texture – may be pigmented with metallic oxides.

## 1. Level 3 Finish

The guidelines summarised in the following pages are for a Level 3 Finish, where:

- Substrate surface imperfections have been patched.
- A base coat of render is applied to a nominal thickness of ~ 3mm, with some make-good of variations in level / alignment of substrate, as allowed by the thickness of render being applied.
- A finish coat of render is applied to a nominal thickness of ~ 4mm and finished ready for a textured decorative finish (1-1.5mm thickness) or paint.

Such a finish will hide most surface imperfections. Minor structural imperfections, misalignment of walls, etc, will be hidden and major imperfections will be reduced, depending on their severity. This is the minimum finish recommended most panel wall systems.

## 2. General Information

Euromix® FP Render is designed for use as a decorative finish, it is not meant to be used in 'engineered' applications (where special strength, movement, hardness or other performance characteristics are required). Euroset recommends that Euromix® Renders be applied by trades people experienced in rendering.

## 3. EPS Substrate Preparation

Ensure that all elements to be rendered have been constructed and fixed in accordance with the project plans and specifications and the EPS sheet manufacturer's recommendations - topics to be considered include:

- EPS Sheets should be fixed using the correct size, number and location of fasteners / washers recommended by the EPS manufacturer.
- All EPS sheet 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 surface irregularities in the EPS sheet alignment and agree the method and extent of any 'make good' with the project manager.
- Identify any areas of substrate that are affected by dust, loose / friable material or adhesion inhibiting materials – remove or otherwise 'make-good' these contaminates.
- Locate expansion joints and control joints and agree the rendering treatment for these with the project manager.
- Locate any damp courses, these cannot be bridged by the render finish. Ensure the treatment of these is agreed with the project manager.
- Agree the rendering treatment of widow and door openings and other penetrations.
- Agree the treatment of floor / floor junctions, these are probable sources of cracking and may be treated as expansion joints.

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## 4. Fixing PVC Corners & Trims

If PVC trims are to be used they should be fixed in position before any rendering is commenced;

- Mask or otherwise cover windows, doors, roofing, flooring and other building elements to protect them from wet Patch and to reduce clean up time.
- Lay Euromix® Patch Coarse into the corners or onto the EPS Sheet faces and then fix the required PVC Trim into position, ensuring that they are plumb and aligned with the appropriate EPS Sheet surface (positive fasteners may be required to ensure the Trims stay in place while the Patch is applied). Once the Trims have been embedded in the Patch Coarse, apply a skim coat of Patch Coarse to finish off flush with the surface of the EPS Sheet.
- For internal corners lay Patch Coarse into the corner and the bed 55mm or 100mm wide alkali resistant fibreglass mesh tape into the corner. Once the fibreglass internal corners have been embedded in the Patch Coarse, apply a skim coat of Patch Coarse to finish off flush with the surface of the EPS sheet.
- Work on Trims progressively to ensure that the Patch Coarse bedding coat does not set before the skim coat of Patch Coarse is applied. Make sure that any excess compound is removed from all edges, while the material is still wet - Euromix® Patch Coarse cannot be sanded after setting.
- Allow at least 24hrs-curing time for Patch Coarse before applying any render or other coating (cold and / or damp weather conditions may extend the curing time, for the Patch Coarse past the normal 24hrs).
- The renderer should make certain he has the correct instructions from the Project Manager as regards to the treatment and placement of expansion joints. These must extend through the rendered surface into the expansion joint provided by the builder on the substrate.

**Note: Patching of fixings is not required before render is to applied over the surface of the EPS Sheet.**

The EPS walls should now be ready for the application of the Euromix® FP Render.

## 5. Mixing Render

Euromix® FP Render should be mixed with clean potable water by mechanical mixer or with a traditional concrete mixer. Add water gradually to the render powder, mixing until it is smooth and lump free. Approx 4L water is required for each bag of Euromix® FP Render.

This wet mixture should hold a stiff peak on the hawk. If the mix is too 'stiff' or too 'wet' it will be difficult to

## 6. The Base Render Coat

Mask or otherwise cover windows, doors, roofing, flooring and other building elements to protect them and to reduce clean up time.

Apply a first coat of Euromix® FP Render to a minimum thickness of 2mm with hawk & trowel. While this coat is wet, trowel in a continuous layer of alkali resistant fibreglass mesh (use 1.0M or 1.2 M wide sheet) taking care to leave a 50mm overlap wherever the mesh joins.

Stop the fibreglass mesh sheet at the edge of any Trims, where they have been used (as per Section 4).

Make sure all necessary preformed expansion or movement relief joints are put in place. An alternative approach to the use of preformed expansion joints is to cut joints after rendering (using an appropriate saw or disc grinder). The renderer should make certain he has the correct instructions from the builder, architect or engineer etc. as regards to the type and placement of these joints.

The renderer must make sure that expansion joints extend through the rendered surface into the expansion joint provided by the builder on the substrate, do not merely score the surface over where an expansion joint is called for.

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

## 7. The Second Render Coat

Once the first / base coat of render has dried (at least 24 hours in normal conditions) prepare Euromix® FP Render and apply this to a nominal thickness of 4mm, using a trowel and straight edge to achieve true and level surface.

Finish with a polystyrene, wood or plastic float ready for a towelled-on acrylic coating or paint.

Alternatively the FP Render can be sponge finished after floating and made ready for the application of a suitable paint system.

It is important that adequate coverage of at least 6mm (total render thickness including base coat) is achieved over the joins in the EPS Sheets and any areas of make-good

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## 8. 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. Do not apply Euromix® Renders when 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).

## 9. Typical Drying Times

The times quoted below are for normal weather conditions, at 25°C and 50% Relative Humidity.

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.

## 10. Finish Coat Systems

Once the second coat of render has cured the final colour coating system can be applied.

### 10.1 Paint

Apply one coat of Euromix Acrylic Prime followed by two coats of Euromix Flex Paint tinted to the required colour. Allow 24 hours between coats.

### 10.2 Texture

Apply one coat of Euromix Acrylic Prime followed by one coat of Euromix Sandstone Texture tinted to the required colour. Allow 24 hours between coats.

## 11. Structural / Building Material Cracking

Movement of building elements in buildings is commonplace (causes include foundation settlement, seismic displacement and the behaviour of materials in relation to changes in temperature or moisture content). These movements usually result in visible cracking of the building claddings / linings (as well as other potentially more damaging modes of failure).

Euromix® systems will not hide cracking caused by structural movement and / or shrinkage / expansion of substrates caused by temperature and moisture associated movement.

## 12. Health and Safety

<b>Precautions</b>	Keep exposure to dust as low as practicable, to minimize health problems such as skin, eye and respiratory irritation. Avoid repeated skin contact with both the dry powder and the wet mixture. If preparation of the substrate requires cutting or grinding of masonry then ensure that goggles and respirators are available and that they are worn. It is also recommended that suitable hearing protection be worn when cutting or grinding
<b>Health Effects</b>	Refer to the current MSDS for the material – available through Euroset Manufacturing Pty Ltd.

## 13. Limitations and Special Precautions

<b>'Build up' element</b>	When used for design element 'build up' it is important that each coat be allowed to thoroughly dry before the next coat is applied.
<b>Control Joints</b>	Control joints should be formed between every level and between different substrates to allow for building movements and minimize potential cracking.

## 14. Handling & Storage

<b>Handling</b>	Euromix® Render and Skim are supplied in 20 kg bags - recognised local safe lifting methods should be used.
<b>Storage / Transport</b>	Drivers of trucks and forklifts transporting Euromix® Renders should ensure that the sacks are properly restrained. Store Render off the floor, in a dry place, in the original bags. Render and Patch are not classified as Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

***The information contained in this 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.***