

Technical Information

Brick-effect Render



Product Description

Field of Application:

Permarock Brick-effect Render is a self-coloured, cement-based render designed to provide an attractive brickeffect appearance when applied over suitably prepared substrates. Permarock Brick-effect Render is supplied as a dry powder premix which requires mixing with water on site. It is applied in two layers, usually in two different colours. Soon after application, the top layer is partially cut away to reveal the base layer, creating a brick effect either for full elevations, or for brick features such as quoins, string courses, soldier courses, etc. Permarock Brick-effect Render is used as a decorative finish with Permarock External Wall Insulation Systems and PermaRend Exterior Render Systems.

Properties:

- Cost-effective creation of brick effect appearance
- Materials are easy to prepare and use
- Low combustibility: Euroclass A2-s1,d0 when used as part of a Permarock Mineral Fibre EWI System
- High water vapour diffusion

Pack Size:

25kg sacks

Storage:

Store in closed sacks, off the ground, dry and protected from moisture. Avoid frost.

Colours:

- Chestnut
- Chocolate
- Golden Russet
- Gunmetal
- Oatmeal
- Red Cedarwood
- Sandstone
- Terracotta
- Tudor Brown
- Other colours are available for special order (Minimum quantities may apply)

Technical Data:

Fire Behaviour:	A2-s1,d0 (EN 13501-1) *
Consumption:	approx. 1.8 kg/mm/m ²
Typical Application Rates	Base layer: 6-8 mm / 10-15 kg/m ²
	Facing / Top layer: 3-5 mm / 5-10 kg/m ²

* when tested / assessed as part of the Permarock Mineral Fibre external wall insulation system

Application

Preparation of Substrates:

Dry reinforcement layers of Permarock Insulated Render Systems or PermaRend Exterior Render Systems. Substrates must be clean, dry, firmly adherent and free from all substances that may prevent good adhesion.

Preparation of Material:

The material is prepared manually by the addition of the dry powder premix to the correctly gauged volume of clean water in a suitably sized, smooth-walled, flat bottomed mixing vessel. Mix only full bag quantities. Do not mix partbags. The mixing ratio for the base and top coat layers is: 5-6 litres water: 25 kg dry powder pre-mix.

The material should be agitated using a low-speed mixer fitted with a paddle-type stirrer until the mixture is uniform and free from lumps (minimum 5 minutes). The mixed material can then be applied to the prepared substrate.

Method of Application:

Permarock Brick-effect Render is applied in two layers - a Base Layer, in the required colour for the brick mortar joints, and a Face (Top) Layer, in the required colour of the brick facings.

Brick-effect Render Base Layer

For the base layer, the prepared material is applied onto the fully hardened basecoat / reinforcement layer using traditional methods (hawk and stainless steel trowel) or using a projection render machine. The material is applied to a thickness of 6-8 mm. Rule off to a flat finish. Do not over trowel, polish the surface, or apply water during the setting.

Brick-effect Render Top Layer

Application

Top layer material can be applied onto the base layer after the base layer has gained sufficient strength and stiffened up, but before it has dried and hardened fully. Top layer material must not be applied if the base layer has dried thoroughly and/or has set. The top coat layer material is applied using traditional methods (hawk and stainless steel trowel) or using a projection render machine to an average thickness of 3-5 mm.

Shading

To achieve a shading effect (optional), apply Brick-effect Render in powder form in a contrasting or blending shade onto the freshly

applied Top Layer material using a hand dispenser or hopper spray, avoiding any regular pattern but aiming to achieve a randomised effect. 2

Texturing

Immediately texture the surface using the appropriate tool (e.g. stiff bristled bush, comb, roller, sponge, spatula or other implement) as required to achieve the required texture so that the finish achieved matches the Client's approved sample.

Avoid over-trowelling the surface, polishing the surface or applying water during the setting period.

Cutting & Marking Out

After the face layer has been shaded and textured, and following initial stiffening of the materials, a special cutting tool is used to cut through the full thickness of the facing layer and into the base coat layer, creating the bed joints and perpendicular joints characteristic of brickwork or stonework.

Straight edges, spirit levels and suitably sized templates should be used to guide this operation.

Experience will dictate the best time for this cutting operation to take place; too soon and the spirit levels and guides will mark and spoil the surface and the cutting operation will drag the render, leaving a ragged edge to the cuts.; too late and it becomes difficult and then impossible to cut through the materials. If cutting is carried out at the correct time, clean-cut edges are achieved leading to a more satisfactory appearance.

Brushing

Following further stiffening of the materials, brush the surface using a soft-bristled brush to remove and face materials left by cutting out.

Working Temperature:

Permarock Brick-effect Render should be used dry and should be stored above 0 °C.

The material should only be applied when the surface and air temperatures, measured at the work face, are within the range 5 °C and 35 °C.

- Avoid application onto frosted surfaces or thawing surfaces.
- Avoid application in direct sunlight.
- Avoid application when rainfall is imminent or when temperatures are likely to fall below freezing before drying/curing has taken place.
- Avoid application in conditions likely to result in rapid drying out.

Drying / Curing Times:

Permarock Brick-effect Render is a cement-based material and its use in cold or wet conditions may encourage the formation of lime bloom which is particularly prone to show on coloured mortars. Minimise the risk of the occurrence of this phenomenon, combinations of these factors should be kept to a minimum.

It is essential to protect the working area and finish before and after application.

Guidance on the treatment of lime bloom / efflorescence can be obtained from Permarock Products Ltd.

Cleaning of Tools & Equipment:

Clean tools and equipment with water immediately after use. Residues must not enter water courses, drainage systems, etc..

Advice

Further details : See material safety data sheet

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