

Technical Data Sheet TC-PD-002

Insul-Sil FT Render

Insul-Sil FT Render is a water repellent, cement based and polymer modified self-coloured render, requiring only the addition of water and 10 minutes mixing time. If applied as per manufacturer's instructions, an attractive, low maintenance textured finish is achieved.

Insul-Sil FT Render is specifically designed to incorporate the benefits of silicone water repellents into a cement based render system.

Silicone adds a high water repellent quality, while allowing water vapour to pass freely through the render; thus the amount of dirt adhering to the surface is greatly reduced, ensuring a freshly rendered appearance for a prolonged period of time. This dry surface also improves the resistance of the finished render to algae growth and the natural phenomenon of lime-bloom.

Use

Insul-Sil FT Render may be used over the range of Insuletics Base Coats as part of a two-coat system, each 10-12mm thick. It should be applied to a uniform thickness to line and level.

- Coverage: 2kg per mm thick per sq metre
- Required: 20-24kg per sq metre approximately

Insul-Sil FT Render is also designed as a one-coat finish over block-work. It is applied to a minimum 16mm thick, possibly in two passes, and scraped to produce a uniform texture, thus saving labour and scaffold time.

- Coverage: 2kg per mm thick per sq metre
- Required: 32-34kg per sq metre approximately

For insulation, concrete, refurbishment work or any other unusual substrate, seek technical advice.

Colour

50mm samples from an extensive range are provided on request, for colour indication only. A site sample panel is recommended to ensure that the specifier is satisfied with the render colour and texture. Insul-Sil FT Render is manufactured from natural products and slight shade variations may occur.

Application

- Mix thoroughly for at least ten minutes to break down additives
- Add 4-5 litres of clean water per 25kg sack. Apply by hawk and trowel 10-16mm, depending on background and number of coats.
- Obtain a flat finish by using long darbys or spatula
- Do not polish
- Small areas such as quoins and window reveals may be finished smooth

Finishes

Textured finish

To achieve a textured finish, scraping should take place when the render has set but not hardened. The exact timing of this operation will vary according to the weather conditions.

Scraping should be done in a tight circular motion, and the surface brushed down with a soft brush upon completion.

All areas must be scraped at the same stage of readiness, as early scraping will result in darker shades and late scraping in lighter shades.

A uniform approach is essential to achieve an even finish.

Ashlar Cutting

Having scraped the surface level, an ashlar effect may be achieved by cutting into the surface with an ashlar cutter to form groove. Leave a minimum 10mm of coloured Insul-Sil FT Render between the recessed ashlar cut and the substrate.

When forming cuts, take care to avoid damaging the arrises by working away from the external corner. All cuts must be the same width and depth and set out uniformly as required.

Angles

Angles may be formed using angle and stop beads – stainless steel or PVC. Angles may also be formed by using chamfered battens.

Expansion Joints

Render expansion joints must follow structural movement breaks. For other expansion joints refer to BS5262.

Preparation

- A test panel to check colour and final appearance is recommended
- Backgrounds should be clean, level, dry and free from efflorescence
- Mask all adjacent surfaces including window sills, door, timber, glass, brick and flooring
- Protect weather exposed surfaces

Cleaning

All equipment should be cleaned with water after use. Set nibs from the mixer can cause problems. Residue must not enter drainage systems.

Packaging

- Packed 40 sacks per tonne, loaded 70 per 1.75 tonne pallet
- Insul-Sil FT Render must be protected on site
- Shelf life is approximately one year in dry conditions in original packaging

Other Information

Safety:- The product is not hazardous if used according to the manufacturer's instructions; a separate material safety data sheet is available on request.

A technical advisory service is available on request.

Company/undertaking identification

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We thereby withhold the right to update and amend this document as necessary.

The information should not be taken as guarantee of specific performance and users should make their own assessment and make all applicable personnel aware accordingly.

The wearing of appropriate safety equipment is strongly recommended as a precaution and the product should only be used in its design application.