

EWI-075

SILICONE RENDER

PRODUCT DATA SHEET

Silicone Render is the most popular render in the EWI Pro range. The render will form a long lasting, aesthetically pleasing protective barrier on the external surface of any building.

Silicone Render is very flexible, highly breathable and resistant to mechanical impact and UV rays. It is throughcoloured and can be tinted to cover an extensive range of colours.

This decorative render is ideal for external rendering works and once it has set firm, has excellent water and frost resistance. Silicone Render is hydrophobic, self-cleaning and has a resistance to biological growth, meaning that once installed it requires minimal aftercare.

Intended Uses

Silicone Render should be installed on top of the reinforced basecoat layer (typically EWI-220 EPS Basecoat or EWI-225 Premium Adhesive with embedded Fibreglass Mesh) to ensure the system is durable and will withstand cracking during any movements within the underlying substrate.

The Silicone Render can be used as a stand-alone 'render only' finish or in the EWI Pro External Wall Insulation Systems. Silicone Render is a decorative render, available in 1mm, 1.5mm, 2mm & 3mm grain size. It can be applied by hand or mechanically sprayed.

Coverage Rates

Texture	Indicative quantity to be used per 1m ² with grain size distribution				
Grain Size	0.5 mm	1 mm	1.5 mm	2 mm	2.5 mm
Coverage	1.6 kg	1.9 kg	2.4 kg	3.4 kg	5.0 kg

Please note: These figures may vary based on the substrate and application method.



Technical Specification

Composition

Silicone emulsions, dispersion of acrylic polymer, fillers, modifying admixtures, pigments

Granulation

0.5mm, 1 mm, 1.5 mm, 2 mm or 3 mm

Dry Bulk Density

approx. 1.84 g/cm³

Bond Strength after aging (MW)

Mineral Wool: ≤ 0.08 MPa EPS: ≤ 0.003 MPa

Reaction to Fire

Mineral Wool: A2 EPS: ≤ 0.003 MPa

Organic Content

6.37%

Relative Diffusion Resistance

≤ 0.13 m

Water Vapour Permeability

<1.00 m

Water Absorption

< 0.5 kg/m²

Please note: These figures may vary based on the substrate and application method.

Directions for use

Substrate Preparation

Before applying the render, the basecoat layer needs to be primed using EWI-333 top coat primer. This can be applied to the substrate using a brush, a roller or a spray machine.

Product Preparation

Silicone Render comes as a through-coloured, ready-to-use product. In order to create coloured Silicone Render, EWI Pro add pigments to the render buckets prior to delivery. Always check the colour matches the order. The render should not be thinned with water or any other products.

Application (1mm, 1.5mm, 2mm & 3mm)

Apply the render onto the substrate using a stainless-steel trowel. The optimal thickness of the render is equal to the grain size and is achieved by removing any excess product from the substrate. To ensure an even-textured finish, immediately rub up the surface of the render using circular motions with a plastic render float.

All pigments are added using a highly calibrated mixing machine, however minor discrepancies may occur between batches. As a result, for each elevation, we recommend using a large primary container which can hold multiple buckets of coloured render. This should be continually topped up and remixed using a paddle mix throughout render application.

Works must be protected from rain, snow, strong winds and direct sunlight. The average drying time for Silicone Render is 12-48 hours depending on weather conditions. The drying period may be significantly longer in low temperature.

Application (0.5mm)

0.5mm render should be applied in two thin passes to achieve a consistent, high-quality finish. Begin by applying the first pass using a stainless steel trowel, working the material onto the surface at a grain thickness of approximately 0.5mm. Once this initial layer has dried fully, apply a second pass in the same manner to enhance coverage and achieve the desired texture. After the second coat begins to firm up, use a plastic float in circular motions to finish the surface and bring out the grain. Always apply over a properly prepared and primed basecoat, ensuring the first layer is dry before proceeding.

Clean-up

All equipment must be washed with clean water immediately after use. Waste material should not be emptied into drainage systems.

Compliance with Standards

PN-C-81913:1998 Dispersion paints for facade painting. European Technical Approvals ETA – 15/0576 and ETA – 15/0575
BBA Approval Inspection Testing Certificate 18/5503

Storage

12 months when stored unopened in a dry environment above 5°C

Packaging

25kg Bucket

Safety Measures

Wear protective goggles, gloves, respiratory equipment and protective clothing when mixing and using this product. Avoid contact with the eyes. In the event of eye contact, wash the affected area with plenty of cold water as soon as possible and seek medical attention. Do not ingest. Keep out of reach of children. Refer to material safety sheet for further information regarding first aid and protection recommendations. Contact with wet cement may cause irritation, dermatitis or burns. For further details, refer to our Health & Safety Data Sheets.

Application Conditions

Substrate Primer

EWI-333 Top Coat Primer

Application and setting temperature

5°C to 25°C

Minimum Layer Thickness

1 mm

Maximum Layer Thickness

3 mm

Drying Time

12-48 hours