

# Product Data Sheet

## Silicone K1

Silicone K1 is a water repellent, cement based, polymer modified, self-coloured render, requiring only the addition of water and 10 minutes mixing time. If applied as per manufacturer's instructions, Silicone K1 will provide an attractive, low maintenance finish. K Rend Silicone K1 is Kitemarked and CE marked to BS EN 998-1:2010 and also ISO 9001 approved.

Silicone K1 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.

### One Coat Coverage:

1.6 kg / mm thick / sq m

### One Coat Require:

26 - 32kg / sq m approx.

Nominal 16 - 20mm thickness

**Silicone K1** is normally applied in two passes depending on background conditions and final finish required. It is important that a consistent minimum finished thickness is achieved over the whole surface and that the maximum recommended thicknesses are not exceeded.

## COLOUR

- Samples from an extensive range are provided on request, for colour indication only
- A site sample panel is recommended, to ensure the specifier is satisfied with render colour and texture
- K Rend materials are manufactured from natural products, slight shade variations may occur

## KITEMARK CLASSIFICATIONS



Compressive Strength: CS II

Capillary Water Absorption Category: W2

Thermal Conductivity: P=50% - 0.39

## APPLICATION

- Silicone K1 is designed for use with most spray machines
- Add material to the feeding hopper and adjust water supply to achieve the desired consistency. Open time - approx one hour
- Add 4 - 5 litres of clean water per 25kg sack
- Do not polish
- Small areas such as quoins and window reveals may be finished smooth
- Use polythene sheeting to protect doors, windows and other features from any over spraying during application

## FIRST PASS

- Using a 12mm or 14mm diameter mortar nozzle, spray Silicone K1 directly on to the prepared wall surface to the required thickness of 4 - 8mm
- Level out immediately, using a straight edge, smoothing trowel or float
- Allow the first pass to stiffen before applying the second pass, the time between passes being shorter in warm dry conditions, and much longer in extreme wet conditions

## SECOND PASS

- Use 8mm or 14mm diameter spray nozzle according to the finish required. The normal recommended finished thickness of most finishes is between 12 - 14mm

## 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
- The surface is ready when a thumb impression cannot be made and when the aggregate scrapes easily from the matrix without sticking to the scraper
- 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 grooves.

Leave a minimum 10mm of coloured K Rend 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

*In line with our policy of continuous product development, we reserve the right to change technical data without notice.*



Certificate No.  
FM85394



BSEN998-1 & BSEN998-2  
Licence No. 514639



Certificate No: 06/0248



## Kilwaughter Chemical Co Ltd

### For UK Sales

9 Starbog Rd, Larne, Co. Antrim, N. Ireland, BT40 2TJ  
Tel: 028 2826 0766 Fax: 028 2826 0136  
Email: Sales@K-Rend.co.uk  
www.K-Rend.co.uk

### For ROI Sales

Classis, Ovens, Co. Cork, Ireland  
Tel: 021 4872733 Fax: 021 4871705  
Email: Sales@K-Rend.co.uk  
www.K-Rend.co.uk