

# Product Data Sheet

## K REND SILICONE TC

K Rend Silicone TC is an organic resin render incorporating a silicone resin emulsion and an acrylic resin dispersion in a ready to use render. If applied according to the manufacturer's instructions it can be used on a variety of prepared exterior surfaces to provide an attractive, low maintenance textured finish.

K Rend Silicone TC incorporates the benefits of silicone technology to provide a water repellent final surface which gives excellent protection. The silicone allows water vapour to pass freely through the render whilst allowing the finish to remain weather resistant. K Rend Silicone TC contains a biocide to help prevent infection from moulds, yeasts and algae and it has a low susceptibility to soiling and contamination.

K Rend Silicone TC is a low odour, ready to use organic resin render which is quick and easy to apply and is available in a wide range of colours. It provides excellent adhesion and application properties and, following appropriate preparation, can be applied to a wide variety of substrates. K Rend Silicone TC is a cement-free render with superior flexibility. Although primarily for external application, K Rend Silicone TC can be used internally.

### FEATURES & BENEFITS

- Silicone technology provides excellent protection, with a water repellent & breathable finish.
- Available in a range of attractive textured finishes and colours.
- Ready to use, supplied in 25kg buckets.
- Low odour and easy to apply.

### COLOUR

- Samples of K Rend Silicone TC are provided on request, for colour indication only.
- A test panel to check colour and final appearance is recommended.
- K Rend materials are manufactured from naturally occurring materials and slight shade variations may occur.
- Continuous areas of work should be completed using the same batch of product to ensure colour consistency.

### COVERAGE

Silicone TC 05 – largest grain 0.5mm; coverage is approximately 16m<sup>2</sup> per 25kg bucket, or 1.6kg/m<sup>2</sup> when applied by hand. Spray application coverage is approximately 20m<sup>2</sup> per 25kg bucket, or 1.3kg/m<sup>2</sup>.

Silicone TC 10 – largest grain 1.0mm; coverage is approximately 14m<sup>2</sup> per 25kg bucket, or 1.8kg/m<sup>2</sup>.

Silicone TC 15 – largest grain 1.5mm; coverage is approximately 10m<sup>2</sup> per 25kg bucket or 2.5kg/m<sup>2</sup>.

Silicone TC 30 – largest grain 3.0mm; coverage is approximately 5m<sup>2</sup> per 25kg bucket, or 5kg/m<sup>2</sup>.

Coverage may vary depending on the substrate and application technique.

### PRODUCT INFORMATION

Silicone TC is a water-based product for exterior and interior use.

Product classification according to BS EN 15824: 2009

- Water vapour permeability: Category V 2
- Water absorption: Category W 3
- Adhesion: 0.65 MPa
- Thermal Conductivity:  $\lambda_{10, \text{dry}} (P=50\%) = 0.83$   
 $\lambda_{10, \text{dry}} (P=90\%) = 0.93$
- Density: Approximately 1,800kg/m<sup>3</sup>

Synthetic resin plaster, in accordance with DIN 18558.

- Designation: Coating Material DIN 18558 – P Org 1

### PREPARATION

- Backgrounds should be clean, level, dry and free from efflorescence.
- Mask all adjacent surfaces including windows, sills, doors, timber, glass, brick & flooring.
- Protect weather exposed surfaces.

### APPLICATION

- The temperature of the substrate and surrounding air should be a minimum of 5°C.
- Do not apply in conditions of strong sunshine or wind.
- Do not apply onto damp or frozen substrates.

- Allow freshly applied render basecoats a minimum of 14 days before work commences.
- Scaffolding should be brushed clean of all dust and debris, prior to application.
- Prime walls using K Rend Primer TC that is colour co-ordinated to the topcoat and allow 24 hours drying time prior to application of the K Rend Silicone TC.
- Stir the bucket contents thoroughly using a slow speed mixer prior to use. A small amount of water can be mixed with the product to achieve the best working consistency.
- Complete continuous surfaces without interruption, working to a wet edge at all times.
- Drying times may be prolonged by lower temperatures and/or high humidity.
- The applied TC render must be protected from rain and rainwater damage while drying.
- K Rend Silicone TC 05 can be applied by spray machine, which achieves the maximum coverage and the most even textured finish.
- To apply K Rend Silicone TC 05 by hand, apply two tight-coats using a hawk & trowel, allowing the first coat to semi-set without forming a skin, before applying a second tight-coat, wet-on-wet.
- The timing between coats will vary depending on the ambient temperature and humidity.
- Once partially dry, the second coat can be trowelled to the desired finish texture.

### CLEANING

Clean tools and equipment with water immediately after use. If product has been left to harden it can only be removed mechanically. Residue must not enter drainage systems.

### PACKAGING & STORAGE

K Rend Silicone TC is packaged in 25 kg plastic tubs. The shelf life is approximately one year if stored off the ground in original, sealed containers and protected against frost and away from direct sunlight.

### TECHNICAL ADVICE

For use of this product, please seek technical advice by contacting your sales representative.

### ADDITIONAL INFORMATION

K Rend Silicone TC is non-hazardous if used according to the manufacturer's instructions. A separate material safety data sheet is available on request

For K Rend Silicone TC 10, 15 and 30

- Apply K Rend Silicone TC 10, 15 or 30 to the thickness of the largest grain size using a stainless-steel float; allow to take-up slightly.
- The surface is then rubbed up in a circular motion using a plastic float to create the desired texture.

For K Rend Silicone TC 05

- Ensure the base-coat render has a flat, floated finish that is free of any loose or protruding grit or sand that could prevent achieving a smooth textured finish.

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