

K REND WITH SILICONE TECHNOLOGY FOR WATER RESISTANCE THAT WORKS



K Rend Silicone FT, Ivory, Kilkenny



K Rend Silicone TC15, Limestone White, Bristol

WATER REPELLENT

LOW MAINTENANCE

ALLOWS STRUCTURE TO BREATHE

NATURAL LOOKING FINISH

EXTENSIVE COLOUR RANGE

The K Rend silicone range incorporates silicone water repellents as an integral part of the cement based render system. This silicone technology imparts a high degree of water repellency to the render surface whilst allowing water vapour to pass through

the render allowing the substrate to breathe. The water repellent surface ensures a freshly rendered appearance for a prolonged period. The finish is drier and thus more resistant to algae growth and the natural phenomenon of limebloom.

PRODUCT RANGE

K Rend Silicone Thin Coat Product overview page 7 - 8	K Rend Textured Finish Product overview page 9 - 10	K Rend Dash Receiver Product overview page 11	K Rend Roughcast Product overview page 12
Silicone TC 15 Hand applied	Silicone FT Hand applied	Silicone Dash Hand applied	Silicone Roughcast Hand applied
Silicone TC 30 Hand applied	Silicone Spray E Grade Spray or hand applied	Overcoating Silicone Dash Spray or hand applied	
Primer TC Brush, roller or spray	Silicone K1 Spray or hand applied	Silicone Spray Dash Spray or hand applied	
NCS (Natural Colour System)	K1 Spray Spray or hand applied		



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K REND... THE PERFECT FINISH

K Rend Brick Rend Product overview page 13	K Bead Product overview page 14	K Rend Base Coat Product overview page 15	K Rend Complementary Products & Services
Brick Rend Hand applied	Durable uPVC Beads R7 Acrylic Bonding Aid Accelerator Liquid additive to accelerate curing time	Standard UF Base Spray or hand applied HP12 Base Spray or hand applied HP14 Base Spray or hand applied HPX Base Spray or hand applied UF Fibre Base Spray or hand applied	K Rend Product Training see page 16 Alkali Resistant Reinforcing Mesh K RANGE Also available: K Mix Construction Mortars K Lime Natural Hydraulic Lime Mortars K Post K Rend Tyrolean K Rend Traditional White Mortar



K Rend Silicone TC 15 and TC 30, using bespoke colours from the NCS colour system, Dundee



K Rend Silicone E Grade White, Salmon Pink & Cream

Complementary Products:

Range of tools

m-tec M300 Spray Machine

K Rend offer an algae resistant additive which gives enhanced resistance against algae growth.

All additives are contained in the mix in powder form, therefore only clean water and thorough mixing are required. Please ask the Technical Support Centre for further advice.

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

SILICONE THIN COAT (TC)

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Silicone TC

Silicone TC is a ready to use organic resin render which is applied to provide a low maintenance textured finish. It is available in different textures and a wide variety of colours. Prior to application the substrate should be primed using Primer TC.

Require:

Silicone TC 15: 2.5 kg / sq m approx.

Silicone TC 30: 5.0 kg / sq m approx.

Product classification according to BS EN 15824:2009

Coating Material DIN 18558 – P Org 1

A water-dilutable product for exterior and interior use.

Water vapour permeability – Category V2;

Water absorption – Category W3;

Adhesion – 0.65 MPa;

Thermal Conductivity:

λ 10, dry (P=50%) = 0.83;

λ 10, dry (P=90%) = 0.93;

Reaction to fire – Class B-s2,d0

Product Classification (DIN 18558)

Coating Material DIN 18558 – P Org 1

Primer TC

Primer TC is a low odour, ready to use primer which is quick and easy to apply by brush, roller or spray. It is available in a wide range of colours which are co-ordinated to the colour of the Silicone TC topcoat.

Primer TC should be used after the application of K Rend base coat and before Silicone TC.

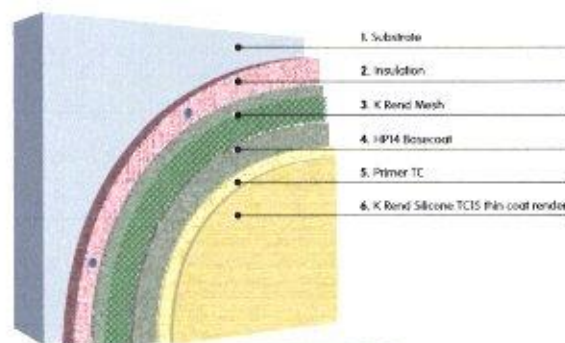
Require:

Primer TC – 0.25 kg / sq m approx.

Composition:

A water-dilutable Acrylic resin dispersion.

The Thin Coat range is particularly suitable where lightweight render systems are required, such as an external wall insulation system (illustrated below).



All full colour illustrations shown in this brochure are as accurate as the printing process will allow. It is important that a sample is obtained as we recommend colours be verified against K Rend Thin Coat samples before ordering.

NCS - Natural Colour System

The Silicone Thin Coat Range uses the NCS System to help customers visualise special colours for their project. NCS - Natural Colour System is a logical colour notation system which builds on how humans see colour.

The NCS, international standard, is the only colour system that describes colour exactly as we see it. Any colour can be defined within the NCS system and given a precise notation. The NCS System is a precise language for the communication of colour. It improves communication between design and production industries and helps to ensure that the customer receives exactly what they want to see. The extensive array of colours available can be communicated effectively in a logical manner, which is easy and simple to use. Please contact our Technical Support Centre to choose a special colour from our NCS colour fan (below).



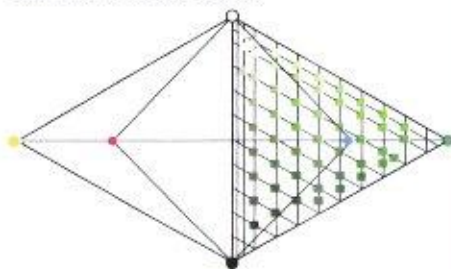
The Six Elementary Colours

NCS was created to solve the problems associated with communicating colour requirements, therefore each colour has its own distinct structure that forms the notation vocabulary of NCS. Each colour can be described by its degree of similarity to the elementary colours, NCS colour notations are therefore based on how much a given colour seems to resemble these six elementary colours: White W, black S, yellow Y, red R, blue B and green G.



The NCS Colour Space

Within this three dimensional model all imaginable surface colours can be plotted and given an NCS notation. A notation represents a specific colour percept out of the millions of surface colours that we can see and describes the colour visually. It is not depending on limitations caused by pigments, light rays or nerve signals that have given rise to this perception.



An NCS Notation is constructed using three properties that visually describe a colour; hue and nuance (blackness and chromaticness). In order to more easily pinpoint colours within the NCS Colour Solid, the NCS Colour Circle and NCS Colour Triangle are used.

The NCS colour circle

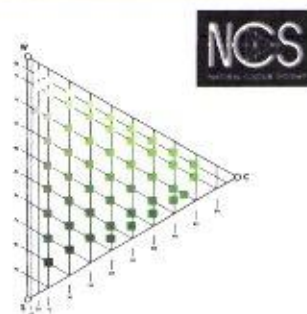
Hue is how similar the colour is to the elementary colours yellow, red, blue and green in the NCS Colour Circle.



© The NCS - Natural Colour System and the NCS notations are the property of the Scandinavian Colour Institute AB. © SCI 2004

The NCS colour triangle

Nuance is determined by the blackness and chromaticness of a colour. Blackness is how dark the colour is and chromaticness is how chromatically strong the colour is, which is represented in the NCS Colour Triangle. Each hue in the colour circle holds a colour triangle. The below illustrates the nuances within the hue G30Y.



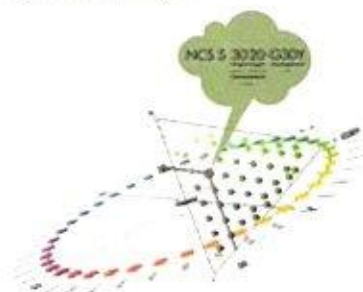
An example: S 1070-Y10R

NCS Notation S 1070-Y10R describes a colour that is included in the standard collection (S) and lies in between the yellow (Y) and red (R) colour span with:

- 10% perceived red (the remaining 90% going towards yellow)
- 10% perceived Blackness
- 70% perceived Chromaticness

This means the colour looks like a quite strong yellow. NCS describes the colour of any material. With numeric colour codes, so called NCS Notations, such as NCS S 1080-Y70R, any colour can be described precisely.

A pictorial example:



EXTERNAL WALL INSULATION SYSTEM

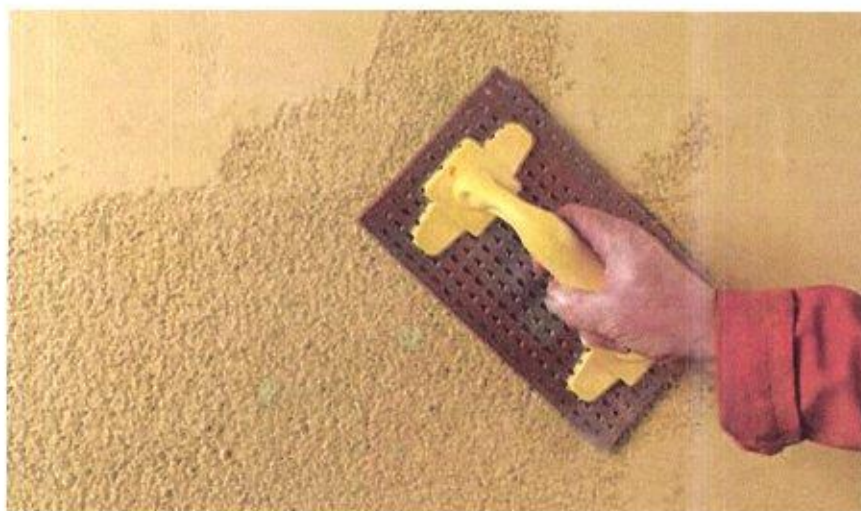
K Rend now hold a BBA Cert (13/5080) which refers to:

K Rend External Wall Insulation System 1 comprising mechanically fixed enhanced expanded polystyrene (EPS) boards with a mesh-reinforced basecoat render. The system is for application to the outside of external walls of masonry or dense concrete construction in new or existing domestic and non-domestic buildings. For more info contact our Technical Team T: 028 2826 0766.



SILICONE SCRAPED TEXTURE RECEIVED

Silicone FT	Silicone Spray E Grade	NEW Silicone K1	
Silicone FT incorporates silicone technology and provides a fine texture finish. Require: 32kg / sq m approx. nominal 16mm thickness Over Base Coat Require: 18kg / sq m approx. nominal 10mm thickness Kitemark Classifications: Compressive Strength: CS IV Capillary Water Absorption Category: W2 Thermal Conductivity: P=50% - 0.63	Silicone Spray E Grade is designed for use with most render spray machines. It is ideal for larger projects where the speed of machine application can offer time saving benefits. One coat Require: 26 - 32kg / sq m approx. nominal 16 - 20mm thickness Kitemark Classifications: Compressive Strength: CS IV Capillary Water Absorption Category: W2 Thermal Conductivity: P=50% - 0.63	Silicone K1 incorporates silicone technology. It is suitable for use with most render spray machines. It is ideal for larger projects where the speed of machine application can offer time saving benefits. Suitable for hand application also. One coat Require: 1.6 kg / mm thick / sq m nominal 16 - 20mm thickness Kitemark Classifications: Compressive strength: CS II Capillary water Absorption category: W 2 Thermal Conductivity: P=50% - 0.39	 



K Rend silicone scraped texture renders form an attractive range of one coat applications plastered directly on to block work. They can also be used as a finish in conjunction with a K Rend Base Coat.

To achieve the required finish, float to a level surface then scrape the complete surface evenly with a scraping tool when the render is set but not hard, removing 2mm, to produce a uniform texture.

This type of application is suitable for Ashlar cutting.



Plastering Test Panel

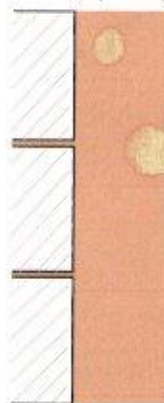
For all products it is recommended that a test panel (ideally 2m²) be produced for inspection by the customer (client, architect, etc.). Work should not commence until the customer is satisfied with the texture and general appearance of the product. The test panel should be prepared well in advance of work commencing. Applicators should be familiar with product water requirement, handling characteristics, setting and hardening times. These may vary according to background, temperature and humidity.

NOTE: For all products "Require" figures are approximate, take no account of wastage and may vary according to substrate and application technique.

K Rend is manufactured using natural raw materials. Subtle texture and colour variations may occur during the application process. It is recommended products are selected from actual samples. Large site samples are available which can be applied under normal site conditions to give a representative sample.

Silicone FT

Textured Finish
1 Coat (2 passes)



Finish coat 16 mm

Textured Finish
2 Coats



Base coat 10 mm
Finish coat 10 mm

Please seek advice from our Technical Support Centre for a detailed specification.