

## PRODUCT DATA SHEET

# Sika® Rugasol® FC

### Liquid Retarders for Vertical Concrete Surfaces

#### DESCRIPTION

Sika® Rugasol® FC is a gel retarder specially designed for the production of exposed aggregate finishes or for producing a mechanical key to construction joints, stop ends, or subsequent rendering applications on vertical surfaces.

#### USES

Sika® Rugasol® FC surface retarder is used to expose aggregate on formed Portland Cement based concrete surfaces.

Sika® Rugasol® FC provides an efficient, economical method of obtaining, a rough bonding surface without the need for hacking, chipping, or sandblasting.

Sika® Rugasol® FC is also used to produce precast panels having a decorative architectural finish showing the colour and texture of natural aggregate. The aggregate remains whole and unbroken.

Sika® Rugasol® FC is painted directly on formwork for walls, ceilings, vertical construction joints or any similar formed concrete surface.

Sika® Rugasol® FC dries on the formwork to a tough, but water-soluble film. Protect from rain. Forms may be coated before or after erection. Reinforcing steel is placed as usual.

Sika® Rugasol® FC will retard the set of the cement paste by up to 6 mm (¼") depth, the depth depends upon the thickness of the coating, the time elapsed before the retarder is removed, the cement content of the concrete and the quantity of water in the mix. The ambient temperature will also affect the depth of retardation.

#### CHARACTERISTICS / ADVANTAGES

Sika® Rugasol® FC will only delay the ultimate hardening and do not "kill" the set of the cement.

When used correctly, Sika® Rugasol® FC will not stain concrete, even white concrete.

Sika® Rugasol® FC will not affect the bond of reinforcement to concrete if accidental splashing occurs, provided it is thoroughly cleaned with clean water.

#### PRODUCT INFORMATION

Packaging	21 kg/pail and 210 kg/drum
Appearance / Colour	Light Brown in gel form
Shelf Life	Protected from direct sunlight and frost, the shelf life is 12 months.
Storage Conditions	Store at temperatures between 5 °C and 35 °C, protected from direct sunlight and frost.

#### APPLICATION INFORMATION

Consumption	Approx. 0.3 kg/m <sup>2</sup>
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## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## FURTHER DOCUMENTS

Spray equipment should be washed out after use with hot water.

## LIMITATIONS

Sika® Rugasol® FC only retards the surface setting of the concrete and does not “kill” the set. If the surface is not washed off within the retarding period, the concrete will set and reach ultimate strength. Thereafter the surface will be difficult to remove.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

### VOC DATA

The maximum content of Sika® Rugasol® FC is 10 g/L VOC for the ready to use product.

## APPLICATION INSTRUCTIONS

### APPLICATION

Sika® Rugasol® FC is ready for use from the container. It should be stirred before use and must not be diluted.

Sika® Rugasol® FC may be applied to any type of clean form. Apply to heavy coat with a brush or roller, and allow to dry (normally 2 to 4 hours). No mould oils should be on the forms. Coated surfaces should be protected from strong sunlight.

Exposed aggregate: For optimum results forms should be removed as soon as possible after the concrete is poured, normally not later than one day in warm weather and up to 2 days in cold weather. If the forms must remain in place longer use two or even three coats of Sika® Rugasol® FC to ensure deep penetration. A sample slab should be made first to see if the effect is that which is required.

Cleaning off: Some of the soft cement paste will stick to the form when the shuttering is stripped; this can be removed easily while still soft from both the form-

work and concrete by a light wire-brushing or with a high pressure water jet. Always clean off immediately after stripping the shutters as the soft cement paste soon hardens, the concrete should be kept moist and cured as usual. It is advisable to undertake a small test in all cases prior to use, as cements and conditions of use can change from site to site.

When using untreated wood or porous forms for the first time we recommend a minimum of two coats of Sika® Rugasol® FC. This will impregnate the surface and aid in the uniform exposure of the aggregate. Form panels to be re-used may be scraped off and re-coated with Sika® Rugasol® FC as soon as is required.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

### SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,  
6 On Ping Street, Shatin, N.T., H.K.  
Phone: +852 26868108  
Fax: +852 26453671  
Mail: marketing@hk.sika.com  
Website: www.sika.com.hk



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