

# PRODUCT DATA SHEET

## Sika® Rugasol® C Extra

CONCRETE SURFACE RETARDER FOR CONSTRUCTION JOINTS

FOR  
>20 MPa  
CONCRETE  
ONLY

### DESCRIPTION

Sika® Rugasol® C Extra has been specifically designed and formulated for obtaining a clean exposed aggregate surface at the face of construction joints where concrete with strengths in excess of 20 MPa are used. [For concrete strengths less than 20 MPa, use Sika® Rugasol C® (NZ).]

Sika® Rugasol® C Extra is an economical and easy to apply product for use on the horizontal face of freshly poured construction joints. The result is a clean and uniform depth of aggregate exposure. The retarding compound in Sika® Rugasol® C Extra combines with concrete at the surface to delay the normal hydration of cement for a depth of approximately 3 - 6mm.

### USES

- For use on horizontal construction joints to prepare an excellent 'keyed' surface for the bonding of subsequent concrete pours
- It can also be used to achieve decorative architectural finishes on concrete with strengths above 20 MPa

### CHARACTERISTICS / ADVANTAGES

- Sika® Rugasol® C Extra is very economical and simple to apply
- Using Sika® Rugasol® C Extra to obtain a mechanical key eliminates the costly expense of bush hammering, scabbling or sandblasting
- Aggregate exposed with Sika® Rugasol® C Extra remains unbroken and firmly embedded in the concrete, ensuring that a strong and tenacious bond is achieved at the construction joint between existing and new concrete
- If accidentally applied to steel reinforcement it will not affect the long term bond of concrete to the steel

### PRODUCT INFORMATION

Packaging	20 litre and 200 litre non refundable containers
Appearance / Colour	Green liquid
Shelf Life	Twelve (12) months from date of manufacture when stored as stated.
Storage Conditions	Store between +5°C and +30°C. Do not expose to direct sunlight in storage.
Density	~ 1.060 kg/litre

### APPLICATION INFORMATION

Consumption	Coverage rate: 3 - 5 m <sup>2</sup> /litre
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# APPLICATION INSTRUCTIONS

## SUBSTRATE QUALITY / PRE-TREATMENT

The concrete is mixed, placed, compacted and screeded. It should then be lightly floated or trowelled to achieve the desired finish.

## APPLICATION

- Sika® Rugasol® C Extra is supplied as a ready to use liquid and should not be diluted
- Immediately after the initial bleed water has disappeared from the concrete, and before setting has commenced, Sika® Rugasol® C Extra should be applied to the surface using a garden sprayer (or similar). *It is important that a uniform rate of coverage is achieved.*

### Removal:

As soon as possible after initial cure of the concrete has taken place the soft cement laitance on the surface can be washed and brushed away to reveal a good clean exposed aggregate finish.

**NOTE:** The depth of the exposure can vary depending on the cement content of the concrete, ambient air temperature, the amount of Sika® Rugasol® C Extra applied and the time it is left on the concrete before removal.

### Cleaning:

Spray equipment should be washed out immediately after use with warm water. Sika® Rugasol® C Extra may stain some surfaces such as paintwork and should be removed immediately.

## LIMITATIONS

- The concrete should be continuously monitored and trials undertaken to ensure that the soft cement laitance is removed before it becomes too hard
- Sika® Rugasol® C Extra is a concrete retarder and as such does not “kill” the set of the concrete. If the treated surface is not washed off before the retardation period has expired then the concrete will set and harden to reach its ultimate strength
- It is not recommended that set accelerating admixtures be used in concrete when treating with Sika® Rugasol® C Extra
- Care should be taken to ensure that washed off cement paste does not enter stormwater pipes or culverts as any remaining residue will harden

- Sika® Rugasol® C Extra may stain light coloured paint surfaces if not removed immediately.
- Use Sika® Rugasol® C Extra when concrete strengths are in excess of 20 MPa. For concrete strengths less than 20 MPa, use Sika® Rugasol C® (NZ).

## 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.

## 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.

## 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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## 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.

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