

PRODUCT DATA SHEET

Sika® Rugasol® G

CONCRETE SURFACE RETARDER

DESCRIPTION

Sika® Rugasol® G is an economical surface retarder for concrete or mortar which is to be overlaid or abutted with a plaster, epoxy screed or another layer of concrete.

After the concrete or mortar has cured, its surface is washed off and the aggregates will be exposed. This eliminates the need for sand blasting or scabbling. It is also used to achieve a decorative exposed aggregate finish.

USES

- Construction joint stopends
- Decorative finish for floor slabs, driveways, patios, swimming pool decks, footpaths, etc.

CHARACTERISTICS / ADVANTAGES

- Easy application by brush or spray
- One time application only
- Expensive scabbling is eliminated
- Labour cost is reduced
- Good mechanical key is provided
- Consistent architectural decorative finish is achieved

PRODUCT INFORMATION

Packaging	20 L pail
Appearance / Colour	Light yellowish gel
Shelf Life	6 months from the date of production
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight.

APPLICATION INFORMATION

Consumption

Application on to fresh concrete

Concrete Type	Recommended coverage of diluted Sika® Rugasol® G
Concrete with retarders on (normally C30 and below)	0.6–1.2 l/m ² *
Concrete with superplasticiser only or superplasticiser and retarder only (normally C35 and above)	1.0–2.0 l/m ²

* Preliminary trials are recommended to determine actual rate of coverage. The rate of coverage may differ from the recommended rate (due to cement type, cement content, ambient temperature and the duration of Sika® Rugasol® G is left on the concrete before removal). *Therefore, preliminary trials are recommended to determine the actual rate of coverage, depth of etch in the concrete and the duration/waiting time before removing the soft cement laitance from the concrete surface.*

Application on to formwork surface

0.20–0.30 l/m² (Do not dilute)

APPLICATION INSTRUCTIONS

APPLICATION

Application on to fresh concrete

Placing of Concrete

The concrete is placed and compacted in the normal manner. It is then trowelled or floated.

Application

Thoroughly mix Sika® Rugasol® G with water (Sika® Rugasol® G:water = 1:2 by volume). The solution obtained is stable.

Immediately after the bleed water has disappeared from the concrete and before initial set, spray diluted Sika® Rugasol® G directly on the concrete surface with a low pressure spraying vessel. It is essential that a uniform rate of coverage be achieved.

Note: Diluted Sika® Rugasol® G should never be applied to the formwork.

Removal

After initial cure of the concrete has taken place (up to 24 hours in warm weather) the soft cement laitance on the surface can be washed and brushed away using a hard bristle broom or steel wire brush, or water-jetted away (150–200 bars) to reveal the exposed aggregate. High pressure water-jetting is recommended for large areas (> 50 m²). The process of removing the soft cement laitance to reveal the exposed aggregates must be completed before the surface hardens.

Note: The depth of exposure can vary depending on the cement content of the concrete, ambient temperature, the amount of Sika® Rugasol® G and the time it is left on the concrete surface before removal. However, an etch depth of ~3–5 mm is normal. Preliminary trials are recommended.

Application on to formwork surface

Mixing

Sika® Rugasol® G is supplied ready-to-use for this application and should not be diluted.

Application

Formwork should be clean and free from any form release agent. Sika® Rugasol® G shall be applied with a brush or short-pile roller. A thorough and uniform rate of coverage is required to achieve a uniform and even depth of etch. Sika® Rugasol® G should be protected

from direct sunlight after application. It is pertinent that the layer of Sika® Rugasol® G dry completely (tack free) before concreting takes place. While drying, Sika® Rugasol® G shall be protected from water and rain.

Removal

For optimum results, forms or moulds should be removed as soon as possible after the concrete has gained sufficient strength; normally between 24 to 48 hours in warm weather. Wash and brush with a hard bristle broom or steel wire brush, or water-jet (150–200 bars) the surface to reveal the exposed aggregate. Some of the soft cement paste will adhere to the forms when the mould is stripped. This can be removed easily from both the formwork and the concrete, while still soft by washing and brushing. Always clean moulds immediately after stripping as the soft cement paste will soon harden.

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 cur-

rent 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.

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