

# PRODUCT DATA SHEET

## Sika® Igoflex® R

### FLEXIBLE RUBBER / BITUMEN EMULSION COATING

#### DESCRIPTION

Sika® Igoflex® R is a solvent free, flexible thick film coating based on rubber bitumen emulsion with a pasty consistency. When applied to concrete surfaces, Sika® Igoflex® R provides protection against the penetration of salty ground water and mild soil acids.

#### USES

Used as a flexible external protective coating and vapour barrier for:

- Retaining walls
- Basements
- Settlement tanks

#### CHARACTERISTICS / ADVANTAGES

- Suitable for use on both dry and damp surfaces
- Easy to apply
- Ready-to-use, no mixing or heating
- Non-sag on vertical surfaces
- Good weather resistance and ageing properties
- Bridges shrinkage and hair-line cracks
- Flexible, permanently plasto-elastic, even at low temperatures
- Odourless and fungus resistant
- Good resistance to mild soil acids and salts

#### PRODUCT INFORMATION

|                                |   |            |
|--------------------------------|---|------------|
| <b>Chemical Base</b>           | Bitumen   |            |
| <b>Packaging</b>               | <ul style="list-style-type: none"> <li>▪ 20 kg pail</li> <li>▪ 200 kg drum</li> </ul>   |            |
| <b>Shelf Life</b>              | 9 months from the date of production  |            |
| <b>Storage Conditions</b>      | Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Keep away from direct sunlight and frost. |            |
| <b>Density</b>                 | 0.96 – 1.20 kg/l (at +30 °C, Density cup 100 cc.)   | ASTM D1475 |
| <b>Solid content by weight</b> | ≥ 55 %  | ASTM D2939 |

#### TECHNICAL INFORMATION

**Thermal Resistance** The cured film will not flow or sag under direct sunlight.

## SYSTEM INFORMATION

|                  |                          |                                       |   |
|------------------|--------------------------|---------------------------------------|---|
| System Structure | Priming coat             | Sika® Igoflex® R 1:1 with clean water | ~0.35 kg/m <sup>2</sup> (including water) |
|                  | 1st coat                 | Sika® Igoflex® R undiluted            | ~0.70 kg/m <sup>2</sup>                   |
|                  | Reinforcement (Optional) | Fiberglass matt                       | 75 g/m <sup>2</sup>                       |
|                  | 2nd coat                 | Sika® Igoflex® R undiluted            | ~0.70 kg/m <sup>2</sup>                   |
|                  | 3rd coat                 | Sika® Igoflex® R undiluted            | ~0.70 kg/m <sup>2</sup>                   |

## APPLICATION INFORMATION

|                         |                          |  |  |
|-------------------------|--------------------------|--|--|
| Ambient Air Temperature | +8 °C min. / +35 °C max. |  |  |
| Substrate Temperature   | +8 °C min. / +35 °C max. |  |  |
| Drying Time             | Tack free                | ½–1 hour   |  |
|                         | Overcoating              | 6–12 hours   |  |
|                         | Final cure               | 2–4 days (depending on climate and coat thickness) |  |

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

- New concrete, screed or render should have a brushed or wood float finish, and should be free from contamination by any material that could impair adhesion. All surface defects should be repaired by approved methods. Protrusions greater than 3 mm should be removed.
- Existing concrete, screed or render should be well prepared to provide a dense, defect free substrate.
- Concrete surfaces should be mat-moist and free from standing water.
- Brickwork, blockwork and masonry should be flush pointed.
- All intersections of horizontal and vertical surfaces should be profiled with a mortar fillet of 25 x 25 mm.

### MIXING

Mechanical mixing is not required. Product should be manually stirred with a plastic spatula until a smooth consistency is obtained.

### APPLICATION METHOD / TOOLS

Sika® Igoflex® R is applied using a wide nylon brush, sheepskin disposable rollers or by spraying\*. The product should be applied in 2 or 3 equal coats of 0.6–0.8 kg/m<sup>2</sup> (depending on application requirements), allowing each coat to dry fully before the next coat is applied. Subsequent coats should be applied at right angles to the previous coat. The product must not be applied in wet conditions or exposed to water until it has fully dried. Waiting time between coats is 6–12 hours, depending on ambient conditions.

\* *Spray using a high-pressure spray gun with feed pressure 4 atm g, atomizer pressure 5 atm g and nozzle size 6 mm.*

The waterproofing system should be allowed to cure for at least 72 hours prior to overlaying with screed. For large areas, a polythene sheet should be placed to isolate the screed from Sika® Igoflex® R membrane. At day joints, Sika® Igoflex® R membrane should overlap the existing cured membrane by at least 100 mm. If the lapping joint is dirty or contaminated, clean using an approved solvent.

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be removed mechanically.

## 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 recommenda-

tions 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.

**Sika (Singapore) Pte Ltd**  
66A Sungei Kadut Street 1  
Singapore 729368  
Phone: +65 6368 0883  
Fax: +65 6368 6636  
Email: sikasing@sg.sika.com  
www.sika.com.sg



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