

PRODUCT DATA SHEET

Sikagard[®]-551 S Elastic Primer

Primer for very dense or porous concrete surfaces or difficult application conditions

DESCRIPTION

Sikagard[®]-551 S Elastic Primer is a one part, silane siloxane modified primer for all kinds of concrete surfaces and/or difficult application conditions.

USES

- Priming of very dense concrete
- Priming of very porous concrete (having a tensile strength lower than 1 N/mm²)
- Sikagard[®]-551 S Elastic Primer can also be used as primer on firmly adhering existing solvent based coatings

CHARACTERISTICS / ADVANTAGES

- Deep penetration
- Water vapour permeable
- Surface strengthening

PRODUCT INFORMATION

| | |
|----------------------------|---|
| Chemical base | Solvent based polymer binder |
| Packaging | 16 kg container |
| Shelf life | 12 months from date of production |
| Storage conditions | Store properly in original and unopened, sealed and undamaged packaging, in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sun light and frost. |
| Appearance / Colour | Liquid / Colourless |
| Density | ~0.93 kg/L (at +30 °C) (EN ISO 2811-1) |

SYSTEM INFORMATION

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|-------------------------|---|
| System structure | 1 × Sikagard [®] -551 S Elastic Primer |
|-------------------------|---|

APPLICATION INFORMATION

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|--------------------------------|---|
| Mixing ratio | The material is supplied ready for use. Stir thoroughly prior to application. |
| Consumption | 0.10–0.15 kg/m ² dependent on the absorbency of the substrate |
| Ambient air temperature | +8 °C min. / +40 °C max. |

| Relative air humidity | < 80 % | | | | | | | | |
|-----------------------------------|--|-------------|------|--------|----------|--------|---------|--------|---------|
| Dew point | Substrate and ambient temperature must be at least 3 °C above dew point. | | | | | | | | |
| Substrate temperature | +8 °C min. / +40 °C max. | | | | | | | | |
| Waiting time / Overcoating | Waiting time before coating: <table border="1"> <thead> <tr> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>24 hours</td> </tr> <tr> <td>+30 °C</td> <td>6 hours</td> </tr> <tr> <td>+40 °C</td> <td>5 hours</td> </tr> </tbody> </table> <p>Note: When application is on existing coating, waiting time prior to overcoat the primer will increase by 100 %. Both water dispersed and solvent containing coating system can be used as subsequent topping.</p> | Temperature | Time | +10 °C | 24 hours | +30 °C | 6 hours | +40 °C | 5 hours |
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| +10 °C | 24 hours | | | | | | | | |
| +30 °C | 6 hours | | | | | | | | |
| +40 °C | 5 hours | | | | | | | | |

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

Please refer to the Product Data Sheet of Sikagard®-550 W IN.
Please refer to the Product Data Sheet of Sikagard®-680 MY.
Please refer to the relevant Method Statement.

IMPORTANT CONSIDERATIONS

Do not apply when there is:

- Expected rain
- Relative humidity > 80 %
- Temperature below +8 °C and/or below dew point
- Concrete younger than 28 days

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate can be dense or porous (tensile strength < 1 N/mm²) but must be free from loose and friable particles.

Exposed concrete without existing coating

Suitable preparation methods are steam cleaning, high pressure water jetting or blast cleaning. New concrete must be at least 28 days old.

Thin layer renderings

If required, a levelling pore sealer (e.g. Sikagard®-694

F(I), Sikadur®-31 IN, Sikadur® PF, etc.) shall be applied. Allow a curing time of at least 4 days before to proceed with the priming.

Exposed concrete with existing coating

Existing coatings must be tested to confirm their adhesion to the substrate

- For subsequent top rigid coating : Adhesion test average > 1.0 N/mm² with no single value below 0.7 N/mm²
- For subsequent top elastic coating : Adhesion test average > 0.8 N/mm² with no single value below 0.5 N/mm²

Please refer to the relevant Method Statement for more details.

For water based coating, use Sikagard®-552 IN Primer W as primer.

For solvent based coating, use Sikagard®-551 S Elastic Primer as primer.

In case of doubt, carry out adherence testing to determine which primer is most suitable - wait at least 2 weeks prior to conduct the adhesion test.

APPLICATION

Sikagard®-551 S Elastic Primer is supplied ready for use. Stir thoroughly prior to application.

Sikagard®-551 S Elastic Primer can be applied by brush, roller or airless spray.

With very dense substrate up to 10 % Sika® Thinner C may be added to Sikagard®-551 S Elastic Primer to increase penetration.

CURING TREATMENT

Sikagard®-551 S Elastic Primer does not require any special curing but must be protected from rain for at least 6 hours at +20 °C.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened / cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.

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Product Data Sheet

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