

PRODUCT DATA SHEET

Sikagard®-551 S Elastic Primer

PRIMER FOR VERY DENSE OR POROUS CONCRETE SURFACES OR DIFFICULT APPLICATION CONDITIONS



PRODUCT DESCRIPTION

Sikagard®-551 S Elastic Primer is a one-component, solvent containing primer for very dense or very porous concrete surfaces and/or difficult application conditions.

Sikagard®-551 S Elastic Primer is part of a system that complies with the requirements of EN 1504-2 as protective coating.

USES

Priming of very dense concrete and 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

Sikagard®-551 S Elastic Primer is part of the system:

- Suitable for protection against ingress (Principle 1, method 1.3 of EN 1504-9)
- Suitable for moisture control (Principle 2, method 2.3 of EN 1504-9)
- Suitable for increasing the resistivity (Principle 8, method 8.3 of EN 1504-9)

CHARACTERISTICS / ADVANTAGES

- Deep penetration
- Water vapour permeable
- Surface strengthening

APPROVALS / STANDARDS

Protective coating according to EN 1504-2, DoP 02 03 03 06 001 0 000001 1010; certified by Factory Production Control Body: 0921; certificate 0921-BPR-2073 and provided with the CE-mark

PRODUCT INFORMATION

Chemical Base	Solvent based polymer binder
Packaging	10 l and 20 kg pails
Appearance / Colour	Slightly yellowish liquid
Shelf Life	36 months from date of production if stored properly in undamaged and unopened original sealed packaging.
Storage Conditions	Store in cool and dry conditions. Protect from direct sunlight and frost.
Density	~0.94 kg/l (at +20 °C)
Flash Point	~33 °C

SYSTEM INFORMATION

System Structure	1 x Sikagard®-551 S Elastic Primer
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APPLICATION INFORMATION

Consumption	0.10–0.15 kg/m ² dependent on the absorbency of the substrate								
Ambient Air Temperature	+8 °C min. / +35 °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. / +35 °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>+8 °C</td><td>36 hours</td></tr><tr><td>+20 °C</td><td>18 hours</td></tr><tr><td>+35 °C</td><td>8 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	+8 °C	36 hours	+20 °C	18 hours	+35 °C	8 hours
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+8 °C	36 hours								
+20 °C	18 hours								
+35 °C	8 hours								
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.								

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 blastcleaning. New concrete must be at least 28 days old.

Thin layer renderings

If required, a levelling pore sealer (e.g. Sika® Mono-Top®-723 N, Icoment-520, etc.) shall be applied. Allow a curing time of at least 4 days before coating.

Exposed concrete with existing coating

Existing coatings must be tested to confirm their adhesion to the substrate - adhesion test average: > 1.0 N/mm² with no single value below 0.7 N/mm² for subsequent top rigid coating; > 0.8 N/mm² with no single value below 0.5 N/mm² for subsequent top elastic coating respectively – refer to the relevant Method Statement for more details

For water based coating, use Sikagard-552 W Aquaprimer 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.

CLEANING OF TOOLS

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

LIMITATIONS

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

VALUE BASE

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.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / h type sb) is 750 (2010) for the ready to use product.

The maximum content of Sikagard®-551 S Elastic Primer is < 750 g/l VOC for the ready to use product.

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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