

Product Data Sheet
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Sikagard®-551 S Elastic Primer

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

Product Description Sikagard®-551 S Elastic Primer is a one part, solvent containing 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 Data

Form

Appearance / Colour Slightly yellowish liquid

Packaging 5 kg container

Storage

Storage Conditions / Shelf-Life 6 months from date of production if stored properly in undamaged and unopened original sealed packaging in cool and dry conditions. Protect from direct sunlight and frost.

Technical Data

Chemical Base Solvent based polymer binder

Density ~ 0.91 kg/l (at +27°C)

Flash Point ~ 40°C

System Information

System Structure 1 x Sikagard®-551 S Elastic Primer

Application Details

Consumption 0.20 - 0.25 kg/m² dependent on the absorbency of the substrate



Substrate Quality	The substrate can be dense or porous (tensile strength < 1 N/mm ²) but must be free from loose and friable particles.
Substrate Preparation	<p><i>Exposed concrete without existing coating:</i></p> <p>Suitable preparation methods are steam cleaning, high pressure water jetting or blastcleaning. New concrete must be at least 28 days old.</p> <p><i>Thin layer renderings:</i></p> <p>Allow a curing time of at least 4 days before to proceed with the priming</p> <p><i>Exposed concrete with existing coating:</i></p> <p>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.</p> <p>Inadequate adhesion: existing coatings must be completely removed by suitable methods and the substrate must be sufficiently sound etc. as above.</p> <p>Adequate adhesion: Thorough cleaning of all surfaces by steam cleaning or high pressure water jetting.</p> <p>In case of existing well adhering water based coating, use Sikagard®-552 W Aquaprimer instead as primer (refer to product data sheet).</p> <p>For solvent based, coating, use Sikagard®-551 S Elastic Primer as primer.</p> <p>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.</p>

Application Conditions / Limitations

Substrate Temperature	+10°C min. / +40°C max.
Ambient Temperature	+10°C min. / +40°C max.
Relative Air Humidity	< 80%
Dew Point	Temperature must be at least 3°C above dew point

Application Instructions

Mixing	The material is supplied ready for use. Stir thoroughly prior to application.
Application Method / Tools	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

Waiting Time / Overcoating

Waiting time before coating:

Temperature	Time
+10°C	24 hours
+30°C	6 hours
+40°C	5 hours

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.

Notes on Application / Limitations	Do not apply when there is: <ul style="list-style-type: none">- Expected rain- Relative humidity >80%- Temperature below +10°C and/or below dew point- Concrete younger than 28 days
Curing Details	
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.
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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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.

