

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 part, 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

Product Data

Form

Appearance / Colour Slightly yellowish liquid

Packaging 15 Litre pail

Storage

Storage Conditions / Shelf-Life 12 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 ~ 0.94 kg/l (at +20°C)

Flash Point ~ 33°C



System Information

System Structure 1 x Sikagard®-551 S Elastic Primer

Application Details

Consumption 0.10 - 0.15 kg/m² dependent on the absorbency of the substrate

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

Substrate Preparation *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 MonoTop®-620, Sikagard®-720 EpoCem® etc) shall be applied - refer to the respective product data sheet. For cement based products, allow a curing time of at least 4 days before coating (except when the EpoCem is used, then coating can be applied after 24 hours with primer)
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
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 Conditions / Limitations

Substrate Temperature +8°C min. / +35°C max.

Ambient Temperature +8°C min. / +35°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
+8°C	36 hours
+20°C	18 hours
+35°C	8 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	<p>Do not apply when there is:</p> <ul style="list-style-type: none"> - Expected rain - Relative humidity >80% - Temperature below +8°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.
Important Notification	<p>The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.</p> <p>PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.</p>

