

Product Data Sheet
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Sikagard®-681 Protection

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Colourless, protective coating for concrete

Product Description

Sikagard®-681 Protection is a one part solvent containing acrylic coating.

Uses

- In exterior concrete surfaces (casted or precast), such as:
 - Concrete slabs with exposed aggregates
 - Pavers
 - Sandblasted concrete
 - Tiles with decorative pattern
- For brick, natural stone, slate and generally smooth surfaces
- For protection of the aesthetic of vertical elements in buildings, industrial buildings, civil engineer constructions, e.t.c.

Characteristics / Advantages

- The final surface can have a glossy or satin appearance, depending on the nature of the substrate
- Provides aesthetically satisfactory and uniform finish
- Protects concrete from aggressive atmospheric agents and carbonation
- Provides sheen to coloured surfaces
- Improves concrete's resistance against stains (oils, grease, e.t.c.)
- Easy to clean and maintain
- Limits the proliferation of algae, lichens
- Does not yellow over time
- Compatible with Sika repair mortars

Product Data

Form

Appearance / Colours Clear liquid

Packaging 3.0 lt pail

Storage

Storage Conditions / Shelf-Life 36 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 Acrylic resin in solvent

Density ~ 0.9 kg/l (at +20°C)

Polymerization rhythm Does not retain dust after 30 min at 20°C



Construction

System Information

System Structure	Consumption depends on the porosity of the substrate <ul style="list-style-type: none">■ For concrete: 2 coats, with consumption 100-150 gr/m² per coat■ For very dense substrates, one coat with consumption 100-150 gr/m² per coat is enough Application under hot weather conditions may increase consumption.
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Substrate Preparation	The surface must be dry, sound and free from loose and friable particles. Suitable preparation methods are steam cleaning, high pressure water jetting or blastcleaning. New concrete must be at least 28 days old. If required, a levelling pore sealer (e.g. Sika® MonoTop®-621 Evolution, Sikagard®-545 W Elastofill, e.t.c.) should be applied. For cement based products, allow a curing time of at least 7 days before coating.
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Application Conditions / Limitations

Substrate Temperature	+5°C min. / +30°C max.
Ambient Temperature	+5°C min. / +30°C max.
Relative Air Humidity	< 85%
Dew Point	Temperature must be at least 3°C above dew point

Application Instructions

Application Method / Tools	Sikagard®-681 can be applied by brush, short-piled lambskin roller or spray. In the case of spraying, dilute it by adding 7% Thinner C. Spray machine characteristics: Pressure 150 bar, Pipe diameter 0,38-0,66 mm, spraying angle 50°-80°.
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Application	Homogenize Sikagard®-681 Protection prior to use. Application is done usually in 2 coats, the first of which must be applied using roller or brush. Avoid excessive material consumption, as this might alter the aesthetic of the surface. Minimum waiting time between layers: <table border="1"><thead><tr><th>Temperature</th><th>10°C</th><th>20°C</th><th>30°C</th></tr></thead><tbody><tr><td>Time</td><td>8 hours</td><td>5 hours</td><td>2 hours</td></tr></tbody></table>	Temperature	10°C	20°C	30°C	Time	8 hours	5 hours	2 hours
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Tool maintenance	Removal of fresh remnants from tools and application equipment can be carried out using Thinner C immediately after use. Hardened / cured material can only be mechanically removed.
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Product ready for use	24 hrs at 20°C
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Notes on Application / Limitations	Sikagard®-681 Protection is not suitable for terracotta, sandstone, ceramic and other non-absorbent substrates. Application on wet substrate or in case of moisture presence before its drying might cause white stains. Depending on the roughness of the substrate, the porosity and in cases of excessive consumption, the surface might turn slippery. For this reason, it is recommended to carry out preliminary tests in areas prone to regular moisture presence (e.g. around pools).
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EU Regulation 2004/42 VOC - Decopaint Directive	According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category II / h type ps) 750 g/l (Limit 2010) for the ready to use product. The maximum content of Sikagard®-681 Protection is < 750 g/l VOC for the ready to use product.
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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.

Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users should 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.



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