

PRODUCT DATA SHEET

Sikagard®-552 W Aquaprimer

WATER BASED PRIMER FOR COATING



DESCRIPTION

Sikagard®-552 W Aquaprimer is a one-component water dispersed adhesion promoting primer for water dispersed polymer paint coatings.

Sikagard®-552 W Aquaprimer is part of a system that complies with the requirements of EN 1504-2 as a protective coating.

USES

Priming coat for concrete and dense mineral substrates like fibre cement, aerated concrete, gypsum and thin rendering such as Sikagard®-720 EpoCem®, e.t.c.

Sikagard®-552 W Aquaprimer can also be used as a primer on firmly adhering existing water based coatings or under cement resurfacing mortar to improve the adhesion in case of concrete surface treated with hydrophobic impregnation.

Sikagard®-552 W Aquaprimer is part of a 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

- Water dispersed - solvent-free
- Environmentally friendly
- Water vapour permeable
- Can be used as an adhesion promoter for coating or cement based resurfacing mortar

APPROVALS / STANDARDS

- Test report from IBAC Aachen dd 07.04.1993 in combination with Sikagard®-545 W Elastofill.
- Test report acc. ZTV-SIB OS DII from the Polymer Institute dd 16.10.0; Nr. P 2703/01-125.
- Protective coating according to EN 1504-2, DoP 02 03 03 06 002 0 000002 1125; certified by Factory Production Control Body: 0921; certificate 0921-BPR-2046 and provided with the CE-mark

PRODUCT INFORMATION

Chemical base	Acrylate dispersion
Packaging	10 l plastic pail
Appearance / Colour	Milky white liquid
Shelf life	24 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	~1.0 kg/l (at 20 °C)
Solid content	~20% by volume

SYSTEMS

System Structure	1 x Sikagard®-552 W Aquaprimer
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APPLICATION INFORMATION

Consumption	~0.10 - 0.12 kg/m ² (~8 to 10 m ² per litre) 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	<p>Waiting time before coating:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>+8 °C</td> <td>12 hours</td> </tr> <tr> <td>+20 °C</td> <td>5 hours</td> </tr> <tr> <td>+35 °C</td> <td>2.5 hours</td> </tr> </tbody> </table> <p>Note: When application is on existing coating, waiting time prior to overcoat the primer will increase by 100%. Use only water dispersed coating systems on top of Sikagard®-552 W Aquaprimer. When used as primer under cement based resurfacing mortar, apply the mortar when the primer is still tacky. If the primer has dried out completely, re-apply 1 coat</p>	Substrate temperature	Time	+8 °C	12 hours	+20 °C	5 hours	+35 °C	2.5 hours
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Curing Treatment	Sikagard®-552 W Aquaprimer does not require any special curing but must be protected from rain for at least 30 minutes at +20 °C.								

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be dense and free from loose and friable particles. Tensile strength of the substrate must be more than 1 N/mm².

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. Sikagard®-720 EpoCem®, Sikagard®-545 W Elastofill, e.t.c.) shall be applied – refer to the respective product data sheet. For cement based products, allow a curing time of at least 4 days before priming.

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 - refer to separate data sheet
- In case of doubt, carry out adherence testing to determine which primer is most suitable - wait at least 2 weeks after application prior to conduct the adhesion test as per EN 1542.

APPLICATION

Sikagard®-552 W Aquaprimer is supplied ready for use; do not dilute it. Shake it thoroughly prior to apply it.

Sikagard®-552 W Aquaprimer can be applied by brush, roller or airless spray.

CLEANING OF TOOLS

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be removed mechanically.

LIMITATIONS

Do not apply when:

- Rain is expected
- Concrete is younger than 28 days

Do not apply a resurfacing mortar onto Sikagard®-552 W Aquaprimer that has dried out - the bonding of the mortar might be impaired.

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. 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 / g type wb) is 30 (Limit 2010) for the ready to use product. The maximum content of Sikagard®-552 W Aquaprimer is < 30 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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