

PRODUCT DATA SHEET

Sikagard®-552 W Aquaprimer

Waterborne primer for concrete protection coatings



DESCRIPTION

Sikagard®-552 W Aquaprimer is a one-part waterborne adhesion promoting primer for water dispersed polymer paint coatings. Sikagard®-552 W Aquaprimer is part of a system that is in scope of the requirements of EN 1504-2 as a protective coating.

USES

The Product is used as a primer before the following products:

- Waterborne concrete protection coatings
- Cementitious resurfacing mortars

The Product is used on the following substrates:

- Untreated concrete
- Concrete treated with hydrophobic impregnations
- Existing firmly adhering waterborne coatings
- Fibre cement
- Leveling mortars
- Gypsum

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)

Please note:

- The Product may only be used by experienced professionals.

PRODUCT INFORMATION

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| Composition | Acrylate dispersion |
| Packaging | 8 l plastic pail |
| Shelf life | 24 months from date of production |

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| Storage conditions | The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage. | |
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| Appearance and colour | <u>Cured appearance</u> | <u>Milky white liquid</u> |
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| Density | ~1.0 kg/l (at 20 °C) | |
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| Solid content by volume | 20 % | |
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SYSTEM INFORMATION

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| System structure | 1 × Sikagard®-552 W Aquaprimer | |
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APPLICATION INFORMATION

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| Consumption | 0.10–0.12 kg/m ² (8–10 m ² per litre) dependent on the absorbency of the substrate. | |
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| Material temperature | <u>Maximum</u> | <u>+35 °C</u> |
| | <u>Minimum</u> | <u>+8 °C</u> |

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| Ambient air temperature | <u>Maximum</u> | <u>+35 °C</u> |
| | <u>Minimum</u> | <u>+8 °C</u> |

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| Relative air humidity | <u>Maximum</u> | <u>80 %</u> |
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| Dew point | Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming. | |
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| Substrate temperature | <u>Maximum</u> | <u>+35 °C</u> |
| | <u>Minimum</u> | <u>+8 °C</u> |

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| Substrate moisture content | <u>Substrate</u> | <u>Test method</u> | <u>Moisture content</u> |
| | Cementitious substrates | Calcium carbide method (CM-method) | ≤ 4 % |

No rising moisture (ASTM D4263, polyethylene sheet)

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| Waiting time to overcoating | PRIMER FOR COATING PRODUCTS | |
| | Waiting time before applying a waterborne coating: | |
| | Temperature | Time |
| | +8 °C | 12 hours |
| | +20 °C | 5 hours |
| +35 °C | 2.5 hours | |

When the application is over an existing coating, waiting time to overcoating is doubled.

PRIMER FOR CEMENT BASED RESURFACING PRODUCTS

When used as primer under resurfacing mortar apply the mortar while the primer is tacky. If the Product has dried out completely, re-apply 1 coat.

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.

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.

APPLICATION INSTRUCTIONS

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

SUBSTRATE PREPARATION

EXPOSED CONCRETE WITHOUT EXISTING COATING Preconditions

New concrete is at least 28 days old.

The substrate is clean, dry and free of all contaminants such as dirt, oil, grease, surface treatments and loose friable material which can reduce the adhesion of the coating.

1. Prepare the substrate mechanically using suitable equipment such as abrasive blast cleaning or high pressure water jetting to achieve a textured surface profile suitable for the Product thickness and required coating adhesion values.
2. Fill all surface defects, blowholes, cavities and pores using a pore filler (such as Sika MonoTop®-723 Finiro, Sikagard®-720 EpoCem® or Sikagard®-545 W Elastofill) to provide a defect free surface.
3. For a cementitious pore filler, allow a curing time of at least 4 days before coating. If Sikagard®-545 W Elastofill or Sikagard®-720 EpoCem® is used, then coating can be applied within 24 hours.

EXPOSED CONCRETE WITH EXISTING COATING

1. Test existing coatings to confirm their adhesion to the substrate and their compatibility.

As guidance, in the absence of any national standards or regulations, adhesion test average $\geq 0.8 \text{ N/mm}^2$ with no single value below 0.5 N/mm^2 .

INADEQUATE ADHESION

1. Completely remove existing coatings using suitable equipment and prepare the substrate as described in

'Exposed concrete without existing coating'.

ADEQUATE ADHESION

1. Thoroughly clean the existing fully bonded coating surfaces of all contaminants using suitable equipment such as steam cleaning or high pressure water jetting.
2. For a waterborne existing coating, use Sikagard®-552 W Aquaprimer as a primer.
3. For a solvent-based existing coating, use Sikagard®-551 S Elastic Primer as a primer.
4. If coating type is unknown, carry out compatibility and adhesion testing to determine which primer is most suitable.

IMPORTANT Wait at least 2 weeks before conducting the adhesion test. The adhesion test average must be $\geq 0.8 \text{ N/mm}^2$ with no single value below 0.5 N/mm^2 . For more information refer to the Application of Sikagard® protective coatings.

APPLICATION

IMPORTANT

Climate conditions during application

The climate conditions during application and curing of the Product can affect the final performance achieved.

Application at temperatures below the stated minimum application temperature may reduce adhesion.

1. Do not apply the Product if rain is expected.
 2. Allow enough time for the substrate to dry after rain or other inclement conditions.
 3. Do not apply the Product at temperatures below the stated minimum application temperature.
1. Shake the Product for 30 seconds prior to application.
 2. Apply the Product to the substrate using a brush, roller or airless spray equipment.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

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.

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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