

PRODUCT DATA SHEET

Sikagard®-552 W Aquaprimer

Waterborne primer for concrete protection coatings

DESCRIPTION

Sikagard®-552 W Aquaprimer is a one-part water-borne 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.

FEATURES

- Waterborne
- Water vapour permeable
- Good adhesion to concrete
- 1-part ready to use

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating

PRODUCT INFORMATION

Composition	Acrylate dispersion	
Packaging	Refer to the current price list for available packaging variations.	
Appearance and colour	Cured appearance	Milky white liquid
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.
Density	~1.0 kg/l (at 20 °C)
Solid content by volume	20 %

APPLICATION INFORMATION

Consumption	0.10–0.12 kg/m² (8–10 m² per litre) dependent on the absorbency of the substrate.		
Material temperature	Maximum	+35 °C	
	Minimum	+8 °C	
Ambient air temperature	Maximum	+35 °C	
	Minimum	+8 °C	
Relative air humidity	Maximum	80 %	
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.		
Substrate temperature	Maximum	+35 °C	
	Minimum	+8 °C	
Substrate moisture content	Substrate	Test method	Moisture content
	Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %
	No rising moisture (ASTM D4263, polyethylene sheet)		
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.			

SYSTEM INFORMATION

System structure

1 × Sikagard®-552 W Aquaprimer

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.

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®-3020, 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 project request or national standards, 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.

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LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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