

# PRODUCT DATA SHEET

## Sikagard®-520 W

### ACRYLIC BASED PROTECTIVE AND DECORATIVE COATING

#### DESCRIPTION

Sikagard®-520 W is a one component, plasto-elastic coating based on acrylic dispersion with crack-bridging properties. It has good resistance against carbonation and ingress of chloride ions, sulphates and oxygen. Suitable for use in hot and tropical climatic conditions.

#### USES

- Sikagard®-520 W is used as decorative coating for interior and exterior surfaces.
- Sikagard®-520 W can be applied on various substrates such as cement plaster, bricks, masonry and concrete blocks, rendered surfaces and concrete surfaces.
- Sikagard®-520 W is used as a dampproof coating for facades.
- Sikagard®-520 W is used for protection and enhancement of concrete structures (normal and lightweight concrete).

#### CHARACTERISTICS / ADVANTAGES

- Water resistive, and vapour permeable
- Crack-bridging
- Good resistance against weathering and ageing
- Solvent free
- Reduced tendency to dirt pick up and contamination

#### PRODUCT INFORMATION

<b>Packaging</b>	20 kg pail
<b>Appearance / Colour</b>	Coloured liquid, available in many colours. Please refer to Sika's Colour chart.
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	Store in cool, dry conditions in original, undamaged sealed packaging and at temperatures between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.
<b>Density</b>	~1.22 kg/l (25 °C)
<b>Solid content by weight</b>	~50 %
<b>Solid content by volume</b>	~41 %
<b>Volatile organic compound (VOC) content</b>	The maximum content of Sikagard®-520 W is < 20 g/l VOC for the ready to use product.

## TECHNICAL INFORMATION

<b>Elongation at Break</b>	~65 % (at 23°C)	(ASTM D638)
<b>Tensile Strength</b>	> 1,0 N/mm <sup>2</sup> (at 23°C)	(ASTM D638)
<b>Tensile Adhesion Strength</b>	≥ 1,5 N/mm <sup>2</sup> (or concrete failure)	(ASTM C1583)
<b>Crack Bridging Ability</b>	Class A 4 (> 1.25 mm)	(EN 1062-7:2004, Method A - C.2)
<b>Water Absorption</b>	Result	Requirements (EN 12390, Part 8)
	~3 mm	< 10 mm

## SYSTEMS

System Structure	System	Product <sup>(1)</sup>	Number of applications (consumption)
	Priming (optional) <sup>(2)</sup>	Sikagard®-552 W Aquaprimer (G)	1 - 2 (~100g/m <sup>2</sup> )
	Filler/Putty/Scratch Coat (optional)	SikaWall® or Sikagard® range	As per substrate requirements
	Top coat <sup>(3)</sup>	Sikagard®-520 W	2 - 3 (~100 g/m <sup>2</sup> /coat)

Note <sup>(1)</sup> Please refer to the respective data sheet for additional information.

Note <sup>(2)</sup> For very difficult substrate (very dense or weak tensile adhesion strength / pull off < 1 N/mm<sup>2</sup>), primer application is recommended.

Note <sup>(3)</sup> In case of an intensive yellow or red colour shade and/or a dark substrate, more than two coats might be required.

## APPLICATION INFORMATION

Consumption	Product	Per coat
	Sikagard®-520 W	~0.10 - 0.20 kg/m <sup>2</sup>
<p>Note:</p> <ul style="list-style-type: none"> <li>300 g of coating applied over 1 m<sup>2</sup> will give approx. 100 µm dry film thickness</li> <li>Some substrates will require higher consumption than indicated above. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc..</li> </ul>		
<b>Layer Thickness</b>	Recommended minimum dry film thickness to achieve the required characteristics ≈100 microns.	
<b>Ambient Air Temperature</b>	+8 °C min. / +40 °C max.	
<b>Relative Air Humidity</b>	< 80 %	
<b>Dew Point</b>	Temperature must be at least 3 °C above dew point.	
<b>Substrate Temperature</b>	+8 °C min. / +40 °C max.	
<b>Curing Treatment</b>	Sikagard®-520 W does not require any special curing but must be protected from rain for at least 4 hours at +23 °C. Full cure: ~7 d at +23 °C	

# APPLICATION INSTRUCTIONS

## SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be dense and free from loose and friable particles. Tensile adhesion strength (pull off) of the substrate must be more than 1 N/mm<sup>2</sup>. Repairs to the substrate, filling of blowholes / voids and surface levelling must be carried out by using appropriate products from the Sikafloor®, Sikadur®, Sika® Mono-Top®, SikaTop®, SikaRep® or Sikagard® range of materials, refer to the latest product data sheet. For cement based products, allow a curing time of at least 5 days before coating (except when the EpoCem is used, then coating can be applied after 24 hours).

### Exposed concrete:

The surface must be dry, sound and free from loose and friable particles. Suitable preparation methods are steam cleaning, high pressure water jetting or blast-cleaning. New concrete must be at least 28 days old.

## APPLICATION

Depending of substrate porosity and required pull-off strength, apply Sikagard®-552 W Aquaprimer (G) evenly onto the substrate.

Apply leveling putty from SikaWall® or Sikagard® range with spatula or trowel, for rectifying minor surface defects, mechanically damaged areas and hairline cracks. When harden, dry sandpaper may be used for smoothening of the surface if required.

Sikagard®-520 W can be applied by brush, roller or airless spray, in one or two coats.

## CLEANING OF EQUIPMENT

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

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

# LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## 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.

## 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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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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