

PRODUCT DATA SHEET

Sikagard®-675 W GB ElastoColor

PROTECTIVE COATING FOR CONCRETE

DESCRIPTION

Sikagard®-675 W GB ElastoColor is a one-part, plasto-elastic water dispersed coating based on styrene acrylate dispersion for the protection and enhancement of fair-faced concrete. Sikagard®-675 W GB ElastoColor can be applied over existing coatings or directly onto the concrete surfaces. Sikagard®-675 W GB ElastoColor complies with the requirements of EN 1504-2 as a protective coating.

USES

- Protection and enhancement of concrete structures.
- Concrete repair works on Sika® levelling mortar, fibre cement and overcoating existing soundly adhering coatings.
- 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)

PRODUCT INFORMATION

Chemical Base	Styrene acrylate dispersion
Packaging	15 l pails
Shelf Life	12 months
Storage Conditions	Store in cool and dry conditions. Protect from direct sunlight and frost.
Appearance / Colour	Thixotropic liquid available in almost every colour shade.
Density	~1.42 kg/l (at +20 °C)
Solid Content by Weight	~64 %
Solid Content by Volume	~48 %

TECHNICAL INFORMATION

CHARACTERISTICS / ADVANTAGES

- Water vapour permeable
- Resistant to weathering and ageing
- Application by roller brush or spray
- High covering power (good opacity)
- Prevents water ingress
- High diffusion resistance to CO₂ (carbon dioxide)

APPROVALS / STANDARDS

Conforms to the requirements of EN 1504-2.

Complies with the requirements for Class 'O', surface as defined in paragraph A13(b) of Approved Document B (Volumes 1 and 2) (2006 Edition) 'Fire Safety' to the Building Regulations 2000.

BS476 Part 6 : Class 1

BS476 Part 7 : Class 1

Tensile Adhesion Strength	~ 2.7 MPa	(EN 1542)	
Capillary Absorption	w = 0.07 kg/(m ² h ^{0.5})	(EN 1062-3)	
Diffusion Resistance to Water Vapour	Dry film thickness	d = 270 µm	(EN ISO 7783-1 & -2)
	Equivalent air layer thickness	S _D , H ₂ O = 0.59 m	
	Water Vapour Permeability	35.6 g/m ² /day	
	Requirements for breathability	S _D , H ₂ O ≤ 5 m	
Permeability to Carbon Dioxide	Dry film thickness	d = 160 µm	(EN 1062-6)
	Equivalent air thickness	S _D , CO ₂ = 235 m	
	Diffusion coefficient CO ₂	µCO ₂ = 1.47x 10 ⁶	
	Requirements for protection	S _D , CO ₂ ≥ 50 m	
Behaviour After Artificial Weathering	Pass after 2000 hours		
Reaction to Fire	Class E		

SYSTEM INFORMATION

System Structure

Normal absorbent concrete and/or well cured thin layer Sika renders (Sika MonoTop®-620 etc.):

System	Product	Number of coats
Priming	Sikagard®-675 W GB ElastoColor diluted with ~15% H ₂ O	1

Absorbent fair faced concrete:

System	Product	Number of coats
Priming	Sikagard®-552 W AquaPrimer	1

Water splash zones, de-icing salt exposure:

System	Product	Number of coats
Priming	Sikagard®-705 L or other Sika® hydrophobic impregnation (Penetration depth class II - EN 1504-2)	1-2

All substrates:

System	Product	Number of coats
Top coat*	Sikagard®-675 W GB ElastoColor	2

Note:

- With yellow or red colour shade variations and/or dark substrates, more than two coats may be required. Trials are advised.
- Refer to relevant Product Data Sheets within the system.

APPLICATION INFORMATION

Consumption	Product	Per coat
	Sikagard®-552 W Aquaprimer	~ 0.10 - 0.15 kg/m ²
	Sikagard®-705 L	~ 0.15 kg/m ²
	Sikagard®-675 W ElastoColor	~ 0.20 - 0.25 kg/m ²
Layer Thickness	Minimum required dry thickness to achieve full durability characteristics (CO ₂ diffusion, adhesion after thermal cycling, etc.) ≈ 160 microns.	
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.																					
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Waiting Time / Overcoating	<p>Waiting time between coats at +20 °C substrate temperature:</p> <table border="1"> <thead> <tr> <th>Previous coating</th> <th>Waiting time (Hours)</th> <th>Next coating</th> </tr> </thead> <tbody> <tr> <td>Sikagard®-552 W</td> <td>≥12</td> <td>Sikagard®-675 W GB</td> </tr> <tr> <td>Aquaprimer</td> <td></td> <td>ElastoColor</td> </tr> <tr> <td>Sikagard®-705 L</td> <td>≥5</td> <td>Sikagard®-675 W GB</td> </tr> <tr> <td></td> <td></td> <td>ElastoColor</td> </tr> <tr> <td>Sikagard®-675 W GB</td> <td>≥1</td> <td>Sikagard®-675 W GB</td> </tr> <tr> <td>ElastoColor</td> <td></td> <td>ElastoColor</td> </tr> </tbody> </table> <p>Note: A refresher coat of Sikagard®-675 W GB ElastoColor can be applied without priming if the existing coat has been thoroughly cleaned</p>	Previous coating	Waiting time (Hours)	Next coating	Sikagard®-552 W	≥12	Sikagard®-675 W GB	Aquaprimer		ElastoColor	Sikagard®-705 L	≥5	Sikagard®-675 W GB			ElastoColor	Sikagard®-675 W GB	≥1	Sikagard®-675 W GB	ElastoColor		ElastoColor
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Applied Product Ready for Use	Final drying: ~24 hours at +20 °C																					

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.

LIMITATIONS

- Product must be not thinned unless the 1st coat is used as a primer (refer to coating system structure).
- Application during cold temperatures below recommended application temperatures may reduce adhesion values.
- Product is not a chemical resistant coating
- Dark colour shades (especially black, dark red and blue, etc.) may fade more rapidly than other lighter colour shades. Fading will be dependant on ultra violet light exposure.
- A refresher coat to improve colour may be required at an earlier interval than usual.
- Where colour fade may occur, the protective properties of the coating will remain unaffected.

Do not apply when:

- Rain expected
- Relative humidity > 80%
- Temperature below +8°C and/or below dew point
- Concrete younger than 28 days

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

VOC DATA

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Exposed concrete without existing coating:

- 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 render / pore sealer (e.g. Sika® Mono-Top®-620, Sikagard®-720 EpoCem®, Sikagard®-545 WElastofill, etc.) shall be applied.
- For cement based products, allow a curing time of at least 4 days before coating (When Sikagard®-720 EpoCem® is used, coating can be applied within 24 hours).

APPLICATION

- Sikagard®-675 W GB ElastoColor is supplied ready for use.
- If required apply appropriate primer to substrate (refer to coating system structure).
- Sikagard®-675 W GB ElastoColor can be applied by brush, roller or airless spray.
- For airless spray application: Pressure: ~150 bar. Nozzle bore: 0.38–0.53 mm. Spray angle: ~50–80°

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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