

PRODUCT DATA SHEET

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ELASTOMERIC COATINGS

Sikagard® Elastic Base Coat

WATER-BASED ELASTIC AND CRACK-BRIDGING, ANTI-CARBONATION BASE COAT for
Sikagard®-550 W Elastic and Sikagard®-670 W

Description	Sikagard® Elastic Base Coat is a water-based, elastomeric and anti-carbonation undercoat. It protects structures from the ingress of carbon dioxide and other aggressive atmospheric influences, without acting as a vapour barrier. Sikagard® Elastic Base Coat is designed for use beneath Sikagard®-550 W Elastic or Sikagard®-670 W as a textured, smooth or economic undercoat.
Where to Use	- As an economic, smooth or textured base coat to Sikagard®-550 W Elastic on buildings and structures. - As a protective and crack bridging undercoat on above grade concrete, mortar, stucco, masonry and finishing systems subject to dynamic micro cracking. - As a textured or elastic base coat for Sikagard®-670 W on building facades and civil-engineering structures.
Advantages	- Easily applied by brush, roller or airless spray; typically self-priming. - Bridges dynamically moving cracks and maintains protection. - Excellent carbon dioxide barrier, reducing carbonation. - Water vapour permeable, allowing structures to breathe. - Provides resistance to weathering, frost and de-icing salts. - Non-toxic and non-flammable, as a system. - Available as smooth or textured base coat for Sikagard® finishes. - An environmentally-friendly, low-VOC, solvent-free, water-based coating.

Technical Data

Packaging	18.9 L (5 US gal.) resealable pail		
Colour	Off White		
Yield	Theoretical Coverage: Sikagard® Elastic Base Coat: Smooth: 2.45 m²/L (100 ft²/US gal.) per coat Recommended wet film thickness: 16 mils per coat Recommended dry film thickness: 8 mils per coat Textured: 1.7 m²/L (70 ft²/US gal.) per coat Recommended wet film thickness: 23 mils per coat Recommended dry film thickness: 11 mils per coat Sikagard®-552 W Aqua Primer: 7 - 10 m²/L (285 - 407 ft²./US gal.) per coat Sikagard® Elastic Base Coat is typically applied as a single undercoat beneath Sikagard® Finishes. Sikagard®-552 W Aqua Primer may be required on porous substrates. Consumption is dependent on porosity of substrate. In addition, allowance must be made for surface profile, unavoidable variation in applied film thickness, loss and waste.		
Shelf Life	2 years in original, unopened container. Store dry between 4 and 35 °C (40 and 95 °F). Condition material to 18 and 24 °C (65 and 75 °F) before using. Protect from freezing. If frozen, discard.		
Properties at 23 °C (73 °F) and 50 % R.H.			
Solids Content	by weight	by volume	
Smooth	63 %		47 %
Textured	64 %		49 %
Curing Rate	Initial tack-free time: 2 hrs	Final cure: < 24 hrs	
Application Temperature (ambient and substrate)	Minimum	5 °C (40 °F)	
	Maximum	35 °C (95 °F)	
Tensile Properties ASTM D412 modified			
7 days	Tensile strength	1.1 MPa (165 psi)	
	Elongation at break	370 %	
30 days	Tensile strength	1.4 MPa (210 psi)	
	Elongation at break	345 %	
Low Temperature Flexibility ASTM C711	-18 °C (0 °F)	13 mm (1/2 in) Mandrel, 180° Bend - No Change	
Moisture Vapour Permeability ASTM E96	10 Perms		
Flame spread and smoke development ASTM E-84-94			
Flame Spread: 0	Smoke Development: 5	Class Rating: A	

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation	All surfaces to be coated must be dry, clean, sound, and frost-free with curing compound residues and any other foreign matter removed. An open textured sandpaper-like surface is ideal (ICRI-CSP 3). Where necessary, surfaces should be prepared mechanically by blast cleaning or high pressure waterjetting. Bugholes, cracks or irregularities in the substrate should be filled and levelled with SikaTop®, SikaRepair® or Sika MonoTop® mortars as appropriate.
Priming	All porous or excessively porous substrates should be primed using Sikagard®-552 W Aqua Primer to allow easy application, reduce consumption, assist in achieving the required film thicknesses and optimise the adhesion of Sikagard® Elastic Base Coat. Site trials should be carried out to determine the need for Sikagard®-552 W Aqua Primer.
Mixing	Stir all material thoroughly to ensure uniformity using a slow speed (300 - 450 rpm) drill and Sika or Jiffy style mixing paddle. Stir until a uniform consistency has been achieved (3 - 5 minutes).
Application	Any areas of glass or other surfaces should be masked to protect against contact with the primer or base coat. Apply Sikagard®-552 W Aqua Primer, where necessary, by brush, roller or spray (brushing provides more even and pore free coats and achieves better penetration). Apply Sikagard® Elastic Base Coat by brush, roller, or spray moving in one direction. Allow coats of Sikagard®-552 W Aqua Primer and Sikagard® Elastic Base Coat to become touch dry before overcoating. At lower temperatures and/or high humidity, the waiting time will be prolonged. Fill all visible hairline cracks and surface defects with appropriate Sika repair mortar, levelling mortar or sealer prior to applying Sikagard® Elastic Base Coat. Note: As with all coatings, jobsite trials are recommended to establish system components, including need for priming, suitability of application equipment, acceptability of workmanship and nature of finish.
Clean Up	Collect and contain spill with absorbent product. Discard in accordance with applicable regulations. Clean tools and brushes with water. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.
Limitations	▪ Not designed for use as a traffic bearing surface or as a roofing system. ▪ Substrate must be dry prior to the application. Allow sufficient time for the substrate to dry after rain or other inclement conditions to avoid bonding problems. ▪ Minimum age of concrete prior to the application is 14 days, depending on curing and drying conditions (moisture content must be below 5 %). ▪ Minimum age of SikaTop®, SikaRepair® or Sika MonoTop® mortars prior to application is 3 days, depending on curing and drying conditions (moisture content must be below 5 %). ▪ If Sikagard® Elastic Base Coat material is frozen within its container, it should not be used. ▪ Do not thin the material as this will reduce film thickness. ▪ Crack bridging capacity is dependent on dry film thickness. ▪ During application, regular monitoring of wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved. ▪ Elastic properties are reduced when the textured grade is used ▪ Crack bridging properties require that the minimum dry film thickness must be achieved. In no circumstances should this be less than 200 microns (8 mils) total. ▪ Not for use as an aesthetic or finish coating.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data. KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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