

SikaGard[®] 550W Elastic

Crack-Bridging Anti-Carbonation Protective Concrete Coating

Technical Data Sheet		Technical Data (typical)		
DE	SCRIPTION			
Sik dec pro disp	aGard 550W Elastic is a one component waterbased corative elastic crack-bridging anti-carbonation tective coating based on an ethylene copolymer persion.	Colours:	Refer to colour chart and current price list for availability and minimum order quantities.	
USES		Specific gravity:	1 40 ka/litre	
Sik aga cor cra	aGard 550W Elastic provides external protection ainst water ingress and carbonation to all types of acrete structures and elements subject to cking/cyclic movement such as:	Volume solids:	53.0 %	
*	Building facades.	Application	+8°C min, +35°C max	
*	Car parks.	humidity	Observe dew point	
*	Bridges.	conditions:	RH ≤80%	
ADVANTAGES		Number of coats:	2 - 3 minimum	
*	Crack-bridging Excellent crack-bridging ability at low temperatures and after weathering.	Recommended	400 microns for optimum crack	
*	Protection Excellent resistance to water, frost, salts, carbonation and UV degradation.	film thickness:		
*	Durability Excellent resistance to weathering and ageing.	Water vapour/diffusion resistance:	S _D (m) : 0.58 m at a dft of 400 microns	
*	Carbonation barriers Reduces the carbonation of concrete.	CO diffusion	P(m) : 79 m	
*	Vapour permeable Allows concrete to maintain stable moisture content.	resistance: (10,000 hours)	at a dft of 400 microns Taywood Certificate No 4369	
*	Adhesion Excellent bond to concrete.	Crack-bridging:	0.3 mm @ 400 microns	
*	Compatibility Compatible with all Sika Concrete Repair products and Sika® FerroGard® corrosion inhibitors.	(3000 hours weathered) Fire properties:	Taywood Certificate No 4304 Class 1 surface	
*	Decorative Available in any colour.	Overcoating times	(BS 476 Pt 1)	
*	Maintenance Re-coating approximately 15 years.	Temp Between (°C) coats (hrs)	Rain 551S 552W 545W resistant (hrs) (hrs) (hrs) (hrs) 80%RH	
*	Application One component, easy to use and apply by brush, roller or spray.	>20 8	3.5 12 8 8	
*	Environmentally friendly Water based.	<15 24	24 24 24 16	
*	BBA approved	All above values are approximate.		

SURFACE PREPARATION

The substrate must be clean, sound, free from laitance, loose and friable particles, dirt and contaminants particularly oil, grease or waxes.

An existing sound and firmly adhering coating may be overcoated, subject to a test area to establish cleaning technique, compatibility and bond, otherwise complete removal is advised.

Preparation by adequate high pressure water jetting or blast cleaning is recommended.

Surface defects, blowholes etc on all substrate types should be prefilled using Icoment®, MonoTop® or SikaTop® or EpoCem® reprofiling mortars to provide a defect free surface.

SikaGard 545 Elastofil may also be used following substrate priming.

Allow mortars to dry for 3-5 days (24 hours - Icoment 520) before coating application. (Dependent on climatic conditions)

On reprofiled substrates a smooth steel float finish should be avoided on levelling/ pore filling coats. Provide a laitance free fine gripping surface using a plastic or wooden float.

SUBSTRATE PRIMING

- * Porous substrates:
 - 1 2 coats SikaGard 551S Primer or
 - 1 2 coats SikaGard 552W Primer.
- * Dense/levelled substrates (ie Sika MonoTop 620): 1 coat SikaGard 551S Primer can be diluted upto 20% with Sika Thinner C

1 coat SikaGard 552W Primer can be diluted upto 10% with water

Priming not required on SikaGard 720 EpoCem, SikaTop 106 ElastoCem or SikaGard 545W Elastofil.

APPLICATION

SikaGard 550W Elastic should be stirred thoroughly prior to application.

Apply SikaGard 550W Elastic by brush or roller to the dry primer. Airless spray is possible. Equipment trials are recommended.

MAINTENANCE

Clean down surface of all contaminants and apply refresher coat to the required dry film thickness.

Handling Precautions

Transming precations Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate venilitation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult adoctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

Important Note 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 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 whatscover, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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IMPORTANT CONSIDERATIONS

- SikaGard 550W Elastic is not suitable as a floor treatment or for continuous water immersion nor may it be applied to wet substrates.
- * Wear suitable protective clothing, gloves and eye protection.
- * Do not apply in direct sunlight, when dew point conditions prevail or the likelihood of frost.
- * Ensure substrate priming coats are thoroughly dry before overcoating.
- * Application of the coating should not commence if rain is imminent.
- * Light or bright colours may require additional coats to achieve optimum opacity or where opacity is reduced through thinning of the first coat. Determine by test area.
- Overcoating existing coatings will affect the performance * characteristics of SikaGard 550W Elastic.
- Always ensure good ventilation. *
- * Do not dilute SikaGard 550W Elastic.
- * Low temperatures and high humidity will lengthen drying times.

CLEANING

Application and mixing tools should be cleaned with water immediately after use. Hardened material must be removed mechanically.

PACKAGING

Refer to latest price list.

MATERIAL CONSUMPTION

Theoretical consumptions for a total dry film thickness of 400 microns:

- i) 2 coat system: Dft 200 microns/coat = 0.38 litres/m² (0.53 kg/m²)
- ii) 3 coat system: Dft 133 microns/coat = 0.25 litres/m² (0.35 kg/m²)

Excluding allowances for loss wastage, surface profile and porosity. Allow approximately 10% extra for spray application.

SHELF LIFE AND STORAGE

Minimum 1 year in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

