



# SikaGard® 545W Elastofil

## High Build Elastic Crack-Bridging Undercoat

### Technical Data Sheet

#### DESCRIPTION

**SikaGard 545 Elastofil** is a one component plasto-elastic acrylic polymer based dispersion, with pore filling and crack-bridging properties.

#### USES

**SikaGard 545 Elastofil** is a suitable undercoat for **SikaGard 550W Elastic**.

- \* Pore hole/blowhole filler.
- \* Levelling/reprofiling concrete surfaces.

#### ADVANTAGES

- \* **Crack-bridging**  
Crack-bridging at low temperatures.
- \* **Thixotropic**  
Fills surface pores, cavities and blowholes.
- \* **Textured**  
Can be textured to desired finish.
- \* **Compatibility**  
Compatible with all **Sika** Concrete Repair products and **Sika® FerroGard®** corrosion inhibitors.
- \* **Vapour permeable**  
Allows structure to breath.
- \* **Environmentally friendly**  
Water based.
- \* **BBA approved**

#### Technical Data (typical)

<b>Colours:</b>	Light grey
<b>Specific gravity:</b>	1.24 kg/litre
<b>Volume solids:</b>	62 %
<b>Application temperatures &amp; humidity conditions:</b>	+8 °C min, +30°C max (substrate and ambient) Observe dew point RH ≤80%
<b>Number of coats:</b>	1 - 2 minimum
<b>Recommended minimum total dry film thickness:</b>	800 microns (400 microns/coat)
<b>Water vapour/diffusion resistance:</b>	S <sub>D</sub> (m) : 2.53 m at a dft of 1034 microns
<b>CO<sub>2</sub> diffusion resistance:</b>	R(m) : 585 m at a dft of 1037 microns
<b>Elongation at break +20°C:</b>	63%
<b>Elongation at break -20°C:</b>	32%
<b>Overcoating times:</b>	Between Rain <b>551S</b> <b>552W</b> coats      Resistant (hrs)    (hrs) (hrs)      (hrs)
Temp (°C)	
20	12      10      12      8
10	24      20      24      24

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 pre-filled using **Icoment®**, **MonoTop®** or **SikaTop®** reprofiling mortars to provide a defect free surface.

Allow mortars to dry for 3 - 5 days (24 hrs - **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:

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

## APPLICATION

**SikaGard 545W Elastofil** should be stirred thoroughly prior to application.

Apply **SikaGard 545W Elastofil** by brush or roller to the dry primer.

The first coat of **SikaGard 545W Elastofil** is generally applied by brush. However, where blowholes are numerous an initial scrape coat by spatula followed immediately by a full coat (brush or roller applied) can speed the rate of application.

To achieve an attractive texture, a second coat of **SikaGard 545W Elastofil** may be rolled on with a short piled roller with the addition of 2% to 3% water if desired.

## IMPORTANT CONSIDERATIONS

- \* **SikaGard 545W Elastofil** is not suitable as a floor treatment or for continuous water immersion nor may it be applied to wet substrates.
- \* **SikaGard 545W Elastofil** must only be used with **SikaGard 550W Elastic**.
- \* 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.
- \* Always ensure good ventilation.
- \* Do not dilute **SikaGard 545W Elastofil**.

## 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 dft consumption per coat:  
400 microns approximately 0.8 kg/m<sup>2</sup> (0.65 litre/m<sup>2</sup>).  
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).



### Handling Precautions

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 ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor 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

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 whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties 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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