



Sika® FerroGard® 903

Corrosion Inhibiting Impregnation

Technical Data Sheet

DESCRIPTION

Sika FerroGard 903 is a corrosion inhibiting organic and inorganic complex designed for impregnation of reinforced concrete. **Sika FerroGard 903** penetrates the concrete and forms a thick monomolecular chemical protective film on the steel reinforcement surface.

The protection of **Sika FerroGard 903** delays the start of corrosion and reduces the corrosion rate. This increased corrosion protection significantly increases the service and maintenance life cycle of structures by 15 years when used as part of a complete Sika Concrete Repair System.

USES

As a preventative measure, providing corrosion protection of reinforcement in all types of concrete structure above and below ground.

During repair and maintenance, as treatment of (as yet) undamaged reinforced concrete where steel is corroding or in danger of corroding due to the effects of carbonation or chloride attack.

Sika FerroGard 903 is particularly suitable for extending the service life of aesthetically sensitive surfaces such as board finishes and exposed aggregate.

ADVANTAGES

- * Complies with the requirements of BRE Digest 444.
- * Long term protection and durability.
- * Renewable.
- * Protects both anodic and cathodic zones of the steel.
- * Highly cost effective.
- * Water based.
- * No effect on water vapour diffusion or other concrete properties.
- * Economical extension of the service life of all types of reinforced concrete structures.
- * Can be applied to the surface of existing repairs and the surrounding areas to prevent the setting up of incipient anodes.
- * Can be applied where other repair/prevention options are not viable.
- * Penetrates through the structure to protect remote areas of reinforcement.
- * Can be used as part of a simple yet effective concrete repair system.
- * Effective in concentrations up to 1.0-2.0% chloride ion by weight of cement at the depth of reinforcement at 0.5 kg/m². This accounts for the vast majority of repairable structures. Increased consumption can be considered for higher chloride concentrations. Contact Sika Ltd for more information.
- * Can be brush or low pressure spray applied or ponded onto the external surface of a structure and allowed to penetrate to the steel interface without the need to break out the concrete.

Technical Data (typical)

Colour: Transparent Liquid

Density (20°C): 1.13kg/l

Viscosity (20°C): 25m Pa s

pH-value: 11

Application Temperature: Minimum +5°C
Maximum +40°C

SikaGard FerroGard Penetration

Rate: Up to 20mm/day

Depth: >80mm

Test Reports: Numerous independent tests from around the world. Performance summary given in Mott MacDonald report No. 26063/001.

All above values are approximate.



SURFACE PREPARATION

All concrete or mortar substrates must be sound, clean and free from oils, grease, efflorescence or surface contaminants and old coatings. All loose materials must be mechanically removed. For large areas high pressure water blasting is recommended. Best results for application of **Sika FerroGard 903** will be obtained on clean, dry, absorbent substrates.

APPLICATION

Sika FerroGard 903 is supplied ready for use and must not be diluted. The produce must be applied to saturation at a minimum consumption rate of 0.1kg/m²/coat by brush, roller or low pressure hand-spray equipment. Normally 3 - 5 coats are required to meet the recommended consumption rate. Surfaces must be allowed to dry between coats (typically 2- 6 hours).

If areas treated with **Sika FerroGard 903** are to be overcoated, the following procedure has to be observed:

- * Allow to dry for at least 1 day.
- * Wash down thoroughly with high pressure waterjet.
- * Allow to dry.
- * Prepare surfaces (see separate data sheets)

Only **Sika MonoTop**, **SikaTop**, **SikaCem** and **Icoment** repair mortars and levelling compounds can be used. Surface preparation is vital to the successful performance of the mortar systems.

Where **Sika FerroGard 903** application before repair is preferred, such as large volume repairs and/or chloride patch repair sites for incipient anode protection.

SikaTop Armatec 110 EpoCem must be used as a bonding bridge before repair mortars.

Note: When using a levelling mortar over **Sika FerroGard 903**, only **SikaGard 720 EpoCem** is normally recommended. Cementitious levelling mortars should only be used if there is a well prepared open textured porous surface that is completely cleaned of residue.

This may require additional preparation.

Overcoating can now proceed with one of the following systems including primers depending on site requirements.

- * **SikaGard 700S Aquastop** or **SikaGard 702W Aquaphobe**.
- * **SikaGard ElastoColor** or **SikaGard 680S Cosmetic**.
- * **SikaGard 545W Elastofil** and/or **SikaGard 550W Elastic**.

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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IMPORTANT CONSIDERATIONS

- * **Sika FerroGard 903** may not be applied if frost or rain is expected. Necessary drying time is approximately 2 - 6 hours.
- * Following application of **Sika FerroGard 903**, visible concrete defects (spalling, cracks) may be repaired using conventional repair methods (removal of damaged concrete, treatment of reinforcement, levelling, reprofiling etc).
- * Depending on substrate condition, the application of **Sika FerroGard 903** may lead to a slight darkening of the surface. Testing is recommended if the surface is to be left uncoated. Protect or mask all other surfaces such as metals, paintwork, brick, stone etc.
- * Do not allow to pollute water or ground.
- * **Sika FerroGard 903** is an alkaline in nature and suitable measures should be taken to avoid contact with the skin (see Health and Safety information for further details).

CLEANING

Use water to clean implements

PACKAGING

25kg containers

MATERIAL CONSUMPTION

Total consumption 0.5kg/m² minimum in three to five coats depending on permeability.

SHELF LIFE

Minimum of 18 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).





SikaGard[®] 700S Aquastop

Siloxane Water Repellent Impregnation

Technical Data Sheet

DESCRIPTION

SikaGard 700S Aquastop is a one component solvented siloxane hydrophobic impregnation.

USES

SikaGard 700S Aquastop is used as a surface applied water repellent which penetrates the pores of the substrate to form a hydrophobic lining in the pore capillary network on concrete masonry, stonework, render and dense blockwork.

- * Building facades.
- * Car parks.
- * Bridges.
- * Civil/engineering structures.
- * As a primer underneath **SikaGard 680S**.

ADVANTAGES

- * Reduces water permeability.
- * Does not alter appearance of treated surface.
- * Vapour permeable.
- * Can be overcoated.
- * Improves resistance to frost.
- * Protects against penetration of de-icing agents.
- * Reduces the effect of efflorescence.

Technical Data (typical)

Colours:	Clear
Specific gravity:	0.8 kg/litre
Application temperatures:	+5°C min, +30°C max (substrate and ambient) Observe dew point M.C. of substrate ≤5% by wt
Number of coats:	2 - 3 wet on wet
Material consumption:	0.15 - 0.2 kg/m ²

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.

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

Allow mortar to dry for 2- 5 days 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.

APPLICATION

Apply **SikaGard 700S Aquastop** by brush, roller or low pressure spray.

IMPORTANT CONSIDERATIONS

- * Check moisture content of levelling mortars/substrates is $\leq 5\%$ by wt before applying.
- * Wear suitable protective clothing, gloves and eye protection.
- * **SikaGard 700S Aquastop** produces an odour.
- * Application of the coating should not commence if rain is imminent.
- * Do not use on green concrete less than 28 days old.
- * Penetration can be reduced where masonry contains salts (efflorescence).
- * Always ensure good ventilation.
- * Do not dilute **SikaGard 700S Aquastop**.
- * Protect glass paintwork, plastics etc from damage. Trial areas recommended.

CLEANING

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

PACKAGING

Refer to latest price list.

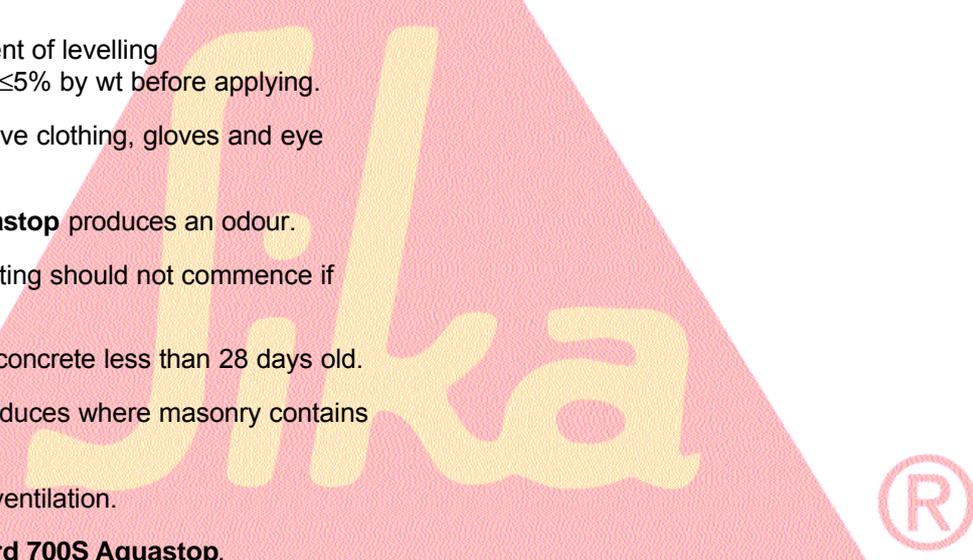
MATERIAL CONSUMPTION

Theoretical consumption per coat 0.2 kg/m² (0.25 litre/m²). Excluding allowances for loss wastage, surface profile and porosity.

Allow approximately 10% extra for spray application.

SHELF LIFE AND STORAGE

Minimum 18 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).



Handling Precautions

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SikaGard[®] 702W Aquaphobe

Water Based Silicone Impregnation

Technical Data Sheet

DESCRIPTION

SikaGard 702W Aquaphobe is a solvent free concentrate of silicone micro-emulsions. Diluted with water, it provides a water repellent impregnation with good penetration into mineral substrates.

USES

SikaGard 702W Aquaphobe when diluted with water, is used as a surface applied water repellent which penetrates the pores of the substrate to form a hydrophobic lining in the pore capillary on the following substrates:

- * Concrete.
- * Masonry.
- * Render.
- * Concrete blocks.
- * Stonework.
- * As a primer underneath **SikaGard 680S** and **SikaGard ElastoColor W**.

ADVANTAGES

- * Reduces water permeability.
- * Does not alter appearance of treated surface.
- * Vapour permeable.
- * Can be overcoated.
- * Improves resistance to frost.
- * Protects against penetration of de-icing agents.
- * Reduces the effect of efflorescence.
- * Water based.

Technical Data (typical)

Colours:	Amber
Specific gravity:	1.0 kg/litre (diluted)
Application temperatures:	+8°C min, +30°C max (substrate and ambient) Observe dew point M.C. of substrate ≤5% by wt
Number of coats:	2 - 3 wet on wet
Dilution ratio 702W : Water	1 : 9 as primer for coatings 1 : 4 as water repellent impregnation

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.

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

Allow mortar to dry for 2 - 5 days 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.

APPLICATION

Apply **SikaGard 702W Aquaphobe** by brush, roller or low pressure spray.

IMPORTANT CONSIDERATIONS

- * Check moisture content of levelling mortars/substrates is $\leq 5\%$ by wt before applying.
- * Wear suitable protective clothing, gloves and eye protection.
- * **SikaGard 702W Aquaphobe** produces an odour.
- * Application of the coating should not commence if rain is imminent.
- * Do not use on green concrete less than 28 days old.
- * Penetration can be reduced where masonry contains salts (efflorescence).
- * Always ensure good ventilation.
- * Dilution with water should be with clean potable water.
- * Protect glass paintwork, plastics etc from damage. Trial areas recommended.

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 0.15 - 0.2 kg/m² (0.15 - 0.2 litre/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).

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.

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SikaGard® 680S

Solvented Anti-Carbonation Protective Concrete Coating

Technical Data Sheet

DESCRIPTION

SikaGard 680S is a one component solvented methacrylic flexible decorative anti-carbonation protective coating. Available as a coloured matt finish or "clear glaze" for exposed aggregate concrete.

USES

SikaGard 680S provides external protection against water ingress and carbonation to all types of concrete structures.

- * Building facades.
- * Car parks.
- * Bridges.

ADVANTAGES

- * **Protection**
Excellent resistance to water, frost, salts, carbonation and UV degradation.
- * **Durability**
Excellent resistance to weathering and ageing.
- * **Carbonation barriers**
Reduces the carbonation of concrete.
- * **Vapour permeable**
Allows concrete to maintain stable moisture content.
- * **Adhesion**
Excellent bond to concrete.
- * **Compatibility**
Compatible with all **Sika** Concrete Repair products and **Sika® FerroGard®** corrosion inhibitors.
- * **Decorative**
Available in any colour.
- * **Maintenance**
Re-coating approximately 15 years.
- * **Application**
One component easy to use and apply by brush, roller or spray.
- * BBA approved

Technical Data (typical)

Colours: Clear glaze : Clear
Coloured: Refer to colour chart and current price list for availability and minimum order quantities.

Specific gravity: 1.4 kg/litre (coloured)
0.9 kg/litre (clear)

Volume solids: 45% (coloured)
37% (clear)

Application temperatures & humidity conditions: +5°C min, +30°C max (substrate and ambient)
Observe dew point
RH ≤80%

Number of coats: 2 minimum

Recommended minimum total dry film thickness: 130 - 150 microns

Water vapour/diffusion resistance: S_D (m) : 1.87 m (coloured) at a dft of 130 microns

CO₂ diffusion resistance: R(m) : 315 m (coloured) at a weathered dft of 100 microns
(4000 hours) Taywood Certificate No 4222

Fire properties: Class 1 surface (BS 476 Pt 1)

Overcoating times:

Temp (°C)	Between coats (hrs)	Rain resistant (mins)	700S/702W
10	8	90	(5 hrs min) (7 days max)
20	5	60	

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®** reprofiling mortars to provide a defect free surface.

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/exposed aggregate substrates:

1 - 2 coats of **SikaGard 702W**

or

1 - 2 coats of **SikaGard 700S Aquastop**

* Dense/levelled substrates:

SikaGard 680S diluted upto 10% by weight with **Thinner C**.

APPLICATION

SikaGard 680S should be stirred thoroughly prior to application.

Apply **SikaGard 680S** 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.

IMPORTANT CONSIDERATIONS

- * **SikaGard 680S** 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 680S**.
- * Always ensure good ventilation.
- * Do not dilute **SikaGard 680S**.
- * **SikaGard 680S** Clear Glaze gives a permanent "wet look".

CLEANING

Application and mixing tools should be cleaned with **Thinner C** 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:
Coloured - 150 microns approx 0.50 kg/m² (0.35 litre/m²).
Clear - 150 microns approx 0.36 kg/m² (0.40 litre/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).

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.

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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)

Colours:	Light grey
Specific gravity:	1.24 kg/litre
Volume solids:	62 %
Application temperatures & humidity conditions:	+8 °C min, +30°C max (substrate and ambient) Observe dew point RH ≤80%
Number of coats:	1 - 2 minimum
Recommended minimum total dry film thickness:	800 microns
Water vapour/diffusion resistance:	S _D (m) : 2.53 m at a dft of 1034 microns
CO₂ diffusion resistance:	R(m) : 585 m at a dft of 1037 microns
Elongation at break +20°C:	63%
Elongation at break -20°C:	32%
Overcoating times:	Between Rain 551S 552W coats Resistant (hrs) (hrs) (hrs) (hrs)
Temp (°C)	
20	12 10 12 18
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 prefilled 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 consumptions for a dry film thickness of 400 microns approximately 0.8 kg/m² (0.65 litre/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).



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.

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SikaGard® 551S/552W Primer

Primers for SikaGard Protective Concrete Coatings

Technical Data Sheet

DESCRIPTION

SikaGard 551S Primer (solvented) and **SikaGard 552W Primer** (water based) are one component primers for **SikaGard** protective concrete coatings.

USES

For priming the surfaces of:

- * Concrete and absorbent mineral substrates before the application of **SikaGard 550W Elastic** and **SikaGard 545W Elastofil**.
- * **SikaGard 552W Primer** can be used as a bonding agent when overcoating old, strongly bonded coatings.

ADVANTAGES

- * Water vapour permeable.
- * Promotes excellent long term bond.

Technical Data (typical)

Colours:	Opaque/white			
Specific gravity:	1.0 kg/litre			
Volume solids:	20%			
Application temperatures & humidity conditions:	+8°C min, +35°C max (substrate and ambient) Observe dew point RH ≤80% M.C. of substrate ≤5% by wt			
Number of coats:	1 - 2 depending on porous or dense concrete			
Material consumption:	0.1 - 0.12 kg/m ²			
Overcoating times:	551S	Rain	552W	Rain
Temp (°C)	Between coats (hrs)	Resistant (hrs)	Between coats (hrs)	Resistant (hrs)
8	24	6	12	2
20	10	2	5	0.5

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®** reprofiling mortars to provide a defect free surface.

Allow mortars to dry for 3 - 5 days (24 hours - **Icoment® 520**) before primer application. (Dependent on climatic conditions and M.C. ≤5%)

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 551S Primer and **SikaGard 552W Primer** should be stirred thoroughly prior to application.

Apply **SikaGard 551S Primer** or **SikaGard 552W Primer** by brush or roller. Airless spray is possible. Equipment trials are recommended.

IMPORTANT CONSIDERATIONS

- * Wear suitable protective clothing, gloves and eye protection.
- * Do not apply in direct sunlight, when dew point conditions prevail or the likelihood of frost.
- * Application of the primers should not commence if rain is imminent.
- * Always ensure good ventilation.
- * **SikaGard 551S** contains solvents. Ensure adequate ventilation.

CLEANING

Application and mixing tools should be cleaned with **Thinner C** for **SikaGard 551S Primer** and water for **SikaGard 552W Primer** immediately after use. Hardened material must be removed mechanically.

PACKAGING

Refer to latest price list.

MATERIAL CONSUMPTION

Theoretical consumptions approximately 0.12 kg/m² (0.12 litre/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).

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

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SikaGard® 550W Elastic

Crack-Bridging Anti-Carbonation Protective Concrete Coating

Technical Data Sheet

DESCRIPTION

SikaGard 550W Elastic is a one component waterbased decorative elastic crack-bridging anti-carbonation protective coating based on an ethylene copolymer dispersion.

USES

SikaGard 550W Elastic provides external protection against water ingress and carbonation to all types of concrete structures and elements subject to cracking/cyclic movement such as:

- * Building facades.
- * Car parks.
- * Bridges.

ADVANTAGES

- * **Crack-bridging**
Excellent crack-bridging ability at low temperatures and after weathering.
- * **Protection**
Excellent resistance to water, frost, salts, carbonation and UV degradation.
- * **Durability**
Excellent resistance to weathering and ageing.
- * **Carbonation barriers**
Reduces the carbonation of concrete.
- * **Vapour permeable**
Allows concrete to maintain stable moisture content.
- * **Adhesion**
Excellent bond to concrete.
- * **Compatibility**
Compatible with all **Sika** Concrete Repair products and **Sika® FerroGard®** corrosion inhibitors.
- * **Decorative**
Available in any colour.
- * **Maintenance**
Re-coating approximately 15 years.
- * **Application**
One component, easy to use and apply by brush, roller or spray.
- * **Environmentally friendly**
Water based.
- * **BBA approved**

Technical Data (typical)

Colours:	Refer to colour chart and current price list for availability and minimum order quantities.					
Specific gravity:	1.40 kg/litre					
Volume solids:	53.0 %					
Application temperatures & humidity conditions:	+8°C min, +35°C max (substrate and ambient) Observe dew point RH ≤80%					
Number of coats:	2 - 3 minimum					
Recommended nominal dry film thickness:	400 microns for optimum crack bridging capacity and durability					
Water vapour/diffusion resistance:	S _D (m) : 0.58 m at a dft of 400 microns					
CO₂ diffusion resistance:	R(m) : 78 m at a dft of 400 microns Taywood Certificate No 4369 (10,000 hours)					
Crack-bridging:	(cyclic ±15°C) 0.3 mm @ 400 microns (3000 hours weathered) Taywood Certificate No 4304					
Fire properties:	Class 1 surface (BS 476 Pt 1)					
Overcoating times:	Temp (°C)	Between coats (hrs)	Rain resistant (hrs)	551S (hrs)	552W (hrs)	545W (hrs)
	20°	8	3.5	12	18	8
	8°	12	6	24	24	16
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 **Iciment®**, **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 - **Iciment 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**

or

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

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.

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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:

- 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).



SikaGard® ElastoColor W

Flexible Anti Carbonation Protective Concrete Coating

Technical Data Sheet

DESCRIPTION

Sikagard Elastocolor W is a flexible one component water dispersed decorative modified acrylic coating.

USES

Sikagard Elastocolor W is used to protect and aesthetically enhance concrete substrates and is particularly suited as a final protective coating for facades.

ADVANTAGES

* Protection

Sikagard Elastocolor W provides excellent resistance to carbonation, frost and de icing salts.

* Vapour Permeable

Sikagard Elastocolor W is water vapour permeable allowing the structure to 'breathe'.

* Easily Maintained

Coating can be overcoated after cleaning.

* Decorative

Supplied in a wide range of different colours.

* Durable

Highly resistant to the effects of UV light (chalking) and weathering.

* Adhesion

Sikagard Elastocolor W has outstanding adhesion to concrete.

* Environmentally Friendly

Sikagard Elastocolor W is water based and rated environmentally harmless.

* Application

Can be applied by brush, roller or airless spray.

* Maintenance re-coating approximately 10 - 15 years.

Technical Data (typical)

Colours: Refer to colour chart and current price list for availability and minimum order quantities.

Specific gravity: 1.4 kg/litre

Volume solids: 45%

Application temperatures & humidity conditions: +8°C min, +30°C max (substrate and ambient)
Observe dew point
RH ≤80%

Number of coats: 2 minimum

Recommended minimum total dry film thickness: 100 - 150 microns



Water vapour/diffusion resistance: S_D (m) : 0.13 m at a dft of 150 microns

CO₂ diffusion resistance: R(m) : 93 m at a dft of 150 microns

Overcoating times:

Temp (°C)	Between coats (hrs)	Rain resistant (hrs)	551S (hrs)	552W (hrs)	702W (hrs)
8	2	5	24	24	(5 hrs min) (7 days max)
20	1	2	12	18	

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. Use **SikaGard 552W** as an adhesion promoter.

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®** reprofiling mortars to provide a defect free surface.

Allow mortar 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

Priming is not normally required on sound concrete substrates or those refurbished with the recommended Sika levelling materials, including **SikaGard 545W Elastofil**. Adhesion and durability of the coating will be improved by priming of the cementitious levelling/pore filling coats.

- * **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**
or
1 coat **SikaGard 552W Primer** can be diluted upto 10% with water
- * **Exposed aggregate:**
Test areas are recommended to confirm consumptions, opacity and bond onto aggregate. Etching of aggregate surface may be required to achieve satisfactory bond. Use **SikaGard 702W**.

APPLICATION

SikaGard ElastoColor W should be stirred thoroughly prior to application.

Apply **SikaGard Elastocolor W** by brush or roller. 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

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.

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IMPORTANT CONSIDERATIONS

- * **SikaGard ElastoColor W** 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 ElastoColor W**.
- * Always ensure good ventilation.
- * Do not dilute **SikaGard ElastoColor W**.
- * Normal coating system 2 - 3 coats of **SikaGard ElastoColor W**. Where light or bright colours are to be applied three coats are recommended, to ensure complete opacity.

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 dry film thickness of 100 microns approximately 0.30 kg/m² (0.22 litre/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).





Sika® Color

Coating for Concrete, Render and Masonry Substrates

Technical Data Sheet

DESCRIPTION

Sika Color is a one component water dispersed decorative acrylic coating.

USES

Sika Color is used to protect and aesthetically enhance concrete, render and masonry substrates and is particularly suited as a final protective coating for external or internal surfaces.

ADVANTAGES

*** Protection**

Sika Color provides very good resistance to carbonation.

*** Vapour Permeable**

Sika Color is water vapour permeable allowing the structure to 'breathe'.

*** Easily Maintained**

Coating can be overcoated after cleaning.

*** Decorative**

Supplied in a limited range of colours.

*** Adhesion**

Sika Color has good adhesion to most substrates.

*** Environmentally Friendly**

Sika Color is water based and rated environmentally harmless.

*** Application**

Can be applied by brush, roller or airless spray.

Technical Data (typical)

Colours: White, Light Grey, Stone Grey, Beige
Other colours on request.

Specific gravity: 1.4 kg/litre

Volume solids: 49%

Application temperatures & humidity conditions: +8°C min, +35°C max (substrate and ambient)
Observe dew point
RH ≤80%

Number of coats: 2 minimum

Recommended minimum total dry film thickness: 100 - 140 microns
132 microns minimum for concrete protection

Water vapour/diffusion resistance: S_D (m) : 0.30 m
at a dft of 140 microns

CO₂ diffusion resistance: R(m) : >50 m
at a dft of 140 microns

Overcoating times:

Temp (°C)	Between coats (hrs)	552W (hrs)
8	24	24
23	12	18

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®** reprofiling mortars to provide a defect free surface.

Allow mortar to dry for 3 - 5 days 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

Priming is not normally required on sound concrete substrates or those refurbished with the recommended Sika levelling materials. Adhesion and durability of the coating will be improved by priming of the cementitious levelling/pore filling coats.

✳ **Porous substrates:**
1-2 x **SikaGard® 552W**.

✳ **Dense/levelled substrates:**
1 coat **Sika Color** diluted upto 10% with water by wt applied @ approx 0.1 kg/m²

APPLICATION

Sika Color should be stirred thoroughly prior to application. Apply **Sika Color** 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

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.

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IMPORTANT CONSIDERATIONS

- ✳ **Sika Color** 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 **Sika Color**.
- ✳ Always ensure good ventilation.
- ✳ Do not dilute **Sika Color**.

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 dry film thickness of 100 microns approximately 0.38 kg/m² (0.27 litre/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).

