

## PRODUCT DATA SHEET

# Sikagard®-850 Clear

Permanent, clear anti-graffiti and anti-fly-poster coating



### DESCRIPTION

Sikagard®-850 Clear is a 1-part, ready-to-use, permanent, semi-matt anti-graffiti and anti-fly-poster coating. The Product is part of the Sikagard® Anti graffiti system.

### USES

Sikagard®-850 Clear is used as a permanent anti-graffiti and anti-fly poster coating on the following substrates:

- Fair-faced concrete, masonry, cementitious render
- Coated concrete, masonry, cementitious render
- Coated concrete, masonry, cementitious render previously treated with a hydrophobic impregnation
- Coated or uncoated wood
- Coated metal surface

Sikagard®-850 Clear is used for:

- Moisture control (Principle 2, method 2.3 of EN 1504-9)
- Increasing the resistivity (Principle 8, method 8.3 of EN 1504-9)

### FEATURES

- One-part ready to use
- Using non-aggressive cleaning techniques, graffiti can typically be removed more than 50 times without damaging the coating or requiring re-coating

- Even after many cleaning cycles, poster adhesive does not adhere to the protected substrate or can be easily removed
- Semi-matt aspect. Clear aspect when using the fair-faced concrete build-up
- No chemical agents required for cleaning
- Cleanings requires only cold water pressure (80 to 100 bar), or cold water low pressure washing and rubbing down
- Clean with cold water, low pressure (80 – 100 bar), or cold water with a clean cloth or scrubbing brush
- Water vapour permeable
- Low water absorption
- Complies with the requirements of EN 1504-2 as protective coating
- Very good resistance against weathering and ageing
- Good resistance to UV exposure
- Applied by brush, roller, or airless spray
- Low dirt pick-up

### CERTIFICATES AND TEST REPORTS

- Adhesion after thermal compatibility 13687, Applus, Report No.21/32304762
- 50 cleaning cycles UNE-EN ISO 2409, Sikagard®-552 W + Sikagard®-850 Activator + Sikagard®-850 Clear, Applus, No. 23/32304334
- 50 cleaning cycles UNE-EN ISO 2409, Sikagard®-850 Primer + Sikagard®-850 Clear, Applus, No. 22/32306109
- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating

## PRODUCT INFORMATION

Packaging	Refer to the current price list for available packaging variations.		
Shelf life	24 months from date of production		
Storage conditions	The Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.		
Flash point	+35 °C		
Volatile organic compound (VOC) content	350 g/lit (calculated)		
Viscosity	At +20 °C	580 mPa·s	(DIN 51562-1)
	At +40 °C	430 mPa·s	

## TECHNICAL INFORMATION

Freeze thaw de-icing salt resistance	>1.8 MPa No bubbles, cracks or surface defects after weathering. Tests were performed after 100 cycles instead of 50 cycles as requested by EN 1504-2.	(EN 13687-1)
Permeability to water vapour	Equivalent air layer thickness $s_D = 0.28$ m  Conforms to Class I (<5 m)	(EN ISO 7783)
Capillary absorption	0.0026 kg·m <sup>-2</sup> ·h <sup>-0.5</sup> Note EN 1504-2:2004, Table 5 — Performance requirements for coatings, Diffusion of chloride ions, footnote <sup>a</sup> : When the capillary absorption to water is < 0.01 kg·m <sup>-2</sup> ·h <sup>-0.5</sup> , the diffusion of chloride ions is not to be expected.	(EN 1062-3)

## APPLICATION INFORMATION

Consumption	125 – 250 g/m <sup>2</sup> These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.
Layer thickness	140 – 270 µm (wet film thickness)
Material temperature	Maximum +35 °C
	Minimum +8 °C
Ambient air temperature	Maximum +35 °C
	Minimum +8 °C
Relative air humidity	Maximum 80 %
Dew point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above the dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.

<b>Substrate temperature</b>	Maximum	+35 °C
	Minimum	+8 °C
<b>Applied product ready for use</b>	Final drying at +20 °C	Up to 24 hours
	Full cure	7 days

Ant-graffiti and anti-poster protection is achieved as soon as the coating has dried out (24 hours).  
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Times are also dependent on layer thickness.

## SYSTEM INFORMATION

System structure	Layer	Product
	Primer for uncoated mineral substrates	1–2 × Sikagard®-850 Primer
	Primer for coated mineral, metal or wood substrates	1 × Sikagard®-850 Activator
	Top coat	1 × Sikagard®-850 Clear
Uncoated mineral substrates may exhibit a wet look after application of Sikagard®-850 Clear. To mitigate this effect, use the recommended build-up:		
	<b>Layer</b>	<b>Product</b>
	Primer for uncoated mineral substrates	1–2 × Sikagard®-552 W Aquaprimer
	Activator for the primed mineral substrate	1 × Sikagard®-850 Activator
	Top coat	1 × Sikagard®-850 Clear

## 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.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

#### SUBSTRATE WITHOUT EXISTING TREATMENT

The surface must be clean, dry, sound and free from loose and friable particles.

1. Prepare the substrate mechanically by selecting and using abrasive blast cleaning, steam cleaning or grinding equipment suitable for the type of substrate.
2. **IMPORTANT:** The rougher the substrate, the more difficult it is to apply a uniform coating of the correct thickness. Level the prepared mineral surface with a Sika levelling mortar to provide a smooth substrate for coating. Refer to the individual Product Data Sheet for further information.

## EXPOSED MINERAL OR WOOD SUBSTRATE WITH EXISTING TREATMENT

The surface must be clean, dry, sound and free from loose and friable particles.

1. Prepare the substrate mechanically by selecting and using abrasive blast cleaning, steam cleaning or water jetting equipment suitable for the type of substrate.

## COATED METAL SUBSTRATES

The surface must be clean, dry, sound and free from loose and friable particles.

1. Lightly abrade the coating with fine-grade sandpaper to provide a micro-textured surface.
2. Clean the surface to remove any dust or abrasion deposits using Sika® Thinner C or Sika® Colma Cleaner.

## APPLICATION

### IMPORTANT

#### Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions, which must always be adjusted to the actual site conditions.

## SUBSTRATE (MINERAL) WITHOUT EXISTING COATING OR HYDROPHOBIC IMPREGNATION (INCLUDING SIKA MONOTOP® PRODUCTS)

1. Apply Sikagard®-850 Primer to the prepared substrate at the required consumption rate so that the surface is continuous and pore free. Refer to Product Data Sheet. **Note:** On rough surfaces, use a brush to ensure the primer covers all surfaces, including voids.
2. Leave the treatment to dry and become tack-free before applying the top coat (2–3 hours, depending on weather conditions).

## SUBSTRATE (MINERAL, METAL OR WOOD) WITH EXISTING COATING OR LASURE

Preconditions: Existing coatings have been tested and are compatible with Sikagard®-850 Activator

1. Apply Sikagard®-850 Activator to the prepared substrate at the required consumption rate so that the surface is continuous and pore free. Refer to Product Data Sheet. **Note:** On rough surfaces, use a brush to ensure the primer covers all surfaces, including voids.

## SUBSTRATE WITH HYDROPHOBIC IMPREGNATION

1. Apply Sikagard®-850 Primer to the prepared substrate at the required consumption rate so that the surface is continuous and pore free. Refer to Product Data Sheet. **Note:** On rough surfaces, use a brush to ensure the primer covers all surfaces, including voids.
2. Leave the treatment to dry and become tack-free before applying the top coat (2–3 hours, depending on weather conditions).

## WOOD (UNCOATED)

No primer or activator products are needed.

## TOP COAT APPLICATION BY BRUSH OR MEDIUM TO LONG-HAIR ROLLER

1. Apply the Product to the prepared substrate at the required consumption rate so that the surface is continuous, pore free and to the required surface finish.
2. Protect the freshly applied coating from heavy rain or rain showers until dry to prevent surface damage.

## TOP COAT APPLICATION BY AIRLESS SPRAY

1. **IMPORTANT:** Do not use aerosol spray equipment designed for car body spraying. Spray the Product in a continuous operation and at a speed to achieve a uniform thickness so that the surface is continuous and free of pores. **Note:** Regularly clean the airless spray equipment to prevent hardened particles from blocking the spraying tip.
2. Back-roll the coating with a roller to improve the finish and uniformity of the film build-up.
3. Protect the freshly applied coating from heavy rain or rain showers until dry to prevent surface damage.

Spray equipment:

Pressure	220 – 250 bar (3200 – 3600 psi)
Hose diameter	10 mm (3/8")
Tip	0.013 – 0.017 inch
Filter	60 mesh

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with a white spirit immediately after use. Hardened material can only be removed mechanically.

## MAINTENANCE INSTRUCTIONS

### GRAFFITI REMOVAL

Remove graffiti as soon as possible using one of these options:

- Cold-water high-pressure, (~80 bar / 1200 psi), jetting or cleaning equipment without a rotating nozzle from a distance of ~10 cm from the substrate
- Cold-water low pressure washing and rubbing down with an absorbent clean cloth or a soft scrubbing brush

### POSTER REMOVAL

Posters applied with water-based paste glues, do not bond to substrates treated with the Product. They will either fall off under their own weight or can easily be removed with minimal effort.

## 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.

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