

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, polyorganosiloxane based, permanent anti-graffiti and anti-fly poster clear gloss coating. This product is part of the Sikagard Anti-graffiti system.

USES

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

Suitable for:

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

CHARACTERISTICS / ADVANTAGES

- Ready to use - no dilution with solvent at job site
- Permanent – graffiti can be removed typically up to more than 10 times without damaging the protection or requiring a refresher coat when using non-aggressive cleaning techniques.
- Poster prevention – fly poster does not bond onto protected substrate or can be easily removed, even after many cleaning cycles
- Semi-matt / clear finish
- No chemical agents required for cleaning
- Cleaning requires only cold-water pressure (80 to 100 bar) or cold-water low pressure washing and rubbing down with a clean cloth or scrubbing brush
- Water vapour permeable
- Complies with the requirements of EN 1504-2 as protective coating
- Low water absorption
- Very good resistance against weathering and ageing
- Good resistance to UV exposure
- Retains gloss finish
- Applied by brush, roller or airless spray
- Very low dirt pick-up

APPROVALS / STANDARDS

Comply to EN 1504-2 as protective coating for principle 2 (Moisture control) & principle 8 (increasing resistivity)

DoP No 31191591

PRODUCT INFORMATION

Chemical Base	Polyorganosiloxanes polymer and solvent
Packaging	5,20 kg containers or 160 kg drum Refer to current price list for packaging variations
Appearance / Colour	Final applied finish: Semi-matt / clear
Shelf Life	12 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 +30 °C. Always refer to packaging.
Density	~0,92 g/cm ³
Volatile organic compound (VOC) content	~350 g/L (calculated)
Viscosity	~580 mPa·s (at 20 °C) ~430 mPa·s (at +40 °C)

SYSTEM INFORMATION

System Structure	System part	Product
	Primer for mineral substrates	Sikagard®-850 Primer
	Primer for coated mineral substrates	Sikagard®-850 Activator
	Top coat	Sikagard®-850 Clear

APPLICATION INFORMATION

Consumption	<p>Note: Generally, 1 coat is sufficient on a suitably prepared, uniform and primed substrate. Top coat: ~150 to 250 g/m² 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.</p>	
Ambient Air Temperature	+8 °C min. / +35 °C max.	
Relative Air Humidity	≤ 80 %	
Dew Point	Substrate and ambient temperature must be at least +3 °C above dew point	
Curing Treatment	No special curing requirements, but must be protected immediately from rain for at least 4 to 5 hours at +20 °C.	
Applied Product Ready for Use	Final drying	Up to ~24 hours at +20 °C for thick film build-up
	Full cure	~7 days
	<p>Times are approximate and will be affected by film thickness and changing ambient conditions particularly temperature and relative humidity. Ant-graffiti and anti-poster protection is achieved as soon as the coating has dried out (~24 hours).</p>	

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.

LIMITATIONS

- Sikagard®-850 Clear is intended for use in industrial and commercial applications where personal protective equipment is required and mandatory.
- Do not use for aerosol-based applications. Sikagard®-850 Clear applied using this application, disperses free aerosol vapour droplets in the air. Breathing in these droplets can cause extremely serious health risks to the user.

- When the container is opened, any remaining product inside the container that has been exposed to the air, will continue to cure and thicken resulting in surface skinning and increased viscosity. It is therefore advised to use up all the product once it is opened until the container is empty.
- The product can be used after a few days of opening the container, providing the skin layer is removed.

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 QUALITY / PRE-TREATMENT

IMPORTANT

On substrates with a rough surface profile, it will be difficult to produce an even coating thickness. This may result in reduced protection and cleanability. Pre-levelling or smoothing the surface is recommended before coating application.

Note: For surface levelling, filling blow holes or repairs to concrete, masonry and cementitious render, use suitable products from the Sika MonoTop® range.

Substrate without existing coating or hydrophobic impregnation

- Substrate must be clean, dry, sound and free of all contaminants such as dirt, oil, grease and loose friable material which can reduce the adhesion of the coating.
- Prepare the substrate using mechanical preparation equipment such as abrasive sanding tools, steam cleaning, blast cleaning or low / high - pressure water jetting.

Substrate with existing coating

- Substrate coating must be clean, dry, firmly bonded and free of all contaminants such as dirt, oil, grease and loose friable material which can reduce the adhesion of the coating.
- Prepare the substrate using mechanical preparation equipment such as abrasive sanding tools, steam cleaning, or low - pressure water jetting.

Substrate with hydrophobic impregnation

- Substrate must be clean, dry, sound and free of all contaminants such as dirt, oil, grease and loose friable material which can reduce the adhesion of the coating.
- Clean the substrate using steam cleaning, blast cleaning or low / high - pressure water jetting equipment.

APPLICATION

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

IMPORTANT

Existing coatings must be tested to confirm their compatibility with Sikagard®-850 Activator and Sikagard®-850 Clear.

PRIMER

IMPORTANT

On rough substrates, use a brush to apply primer and make sure the primer covers all the surface including voids.

IMPORTANT

Allow the primer surface to dry and become tack-free before applying the top coat (~2–3 hours depending on weather conditions).

IMPORTANT

Allow Sika MonoTop mortars to cure for 3–5 days before applying primer.

Substrate without existing coating or hydrophobic impregnation (including Sika MonoTop® products)

1. Apply Sikagard®-850 Primer evenly over the prepared substrate at the required consumption rate. Refer to Product Data Sheet.
2. The primer must be continuous and pore free.

Substrate with existing coating

1. Apply Sikagard®-850 Activator evenly over the prepared substrate at the required consumption rate. Refer to Product Data Sheet.
2. The primer must be continuous and pore free.

Substrate with hydrophobic impregnation

1. Prime with Sikagard®-850 Primer evenly over the prepared substrate at the required consumption rate. Refer to Product Data Sheet.
2. The primer must be continuous and pore free.

Wood (uncoated)

Does not require priming

TOP COAT

IMPORTANT

If applied over a primer, refer to appropriate Drying time / Waiting time to overcoating.

Application by brush or fleece roller

1. If required, mix the coloured pigment into the product until fully dispersed and a uniform colour is achieved.
2. Apply the Product evenly over the surface.
3. The coating must be continuous, pore free and to the required surface finish.
4. Protect Product from heavy rain or rain showers until dry to prevent surface damage.

Application by airless spray

IMPORTANT

Do not use aerosol car body type spraying equipment.

Note: The airless spray may not give a smooth or acceptable finish. It may be necessary to back-roll the coating with a roller to ensure a suitable finish and film build-up.

Requirement: Airless spraying characteristics:

- Pressure: 220 to 250 bar (3200–3600 psi)
 - Hose diameter: ~10 mm (3/8")
 - Tip: 0,13° to 0,17°
 - Filter: 60 mesh
1. If required, mix the coloured pigment into the product until fully dispersed and a uniform colour is achieved.
 2. Spray apply the Product in a continuous operation and at a speed to achieve a consistent thickness.
 3. The coating must be continuous, pore free and to

- the required surface finish.
4. Protect Product from heavy rain or rain showers until dry to prevent surface damage.

CLEANING OF TOOLS

- Clean all tools and application equipment with white spirit immediately after use. Hardened material can only be mechanically removed.
- Clean airless spray equipment at regular intervals to prevent harden silicon particles blocking the spraying tip.

MAINTENANCE

CLEANING

Graffiti removal

IMPORTANT

Do not use rotating nozzle on high-pressure cleaning equipment.

As a general rule, always remove graffiti as soon as possible using either of the 2 options:

1. Cold-water high-pressure jetting / cleaning equipment (~80 bar / 1200 psi) from a distance of ~10 cm from the substrate.
2. Cold-water low pressure washing and rubbing down with a suitable absorbent clean cloth or a soft scrubbing brush.

Poster removal

Posters applied with water-based paste glues, do not bond on substrates treated with Sikagard®-850 Clear. 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.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / i type sb) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikagard®-850 Clear is ≤ 500 g/l VOC for the ready to use product.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Product Data Sheet

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