

# **BUILDING TRUST**

# 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 antifly poster semi-matt 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 20 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 aspect. Clear aspect when using the fairfaced concrete build-up
- 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
- Applied by brush, roller or airless spray
- Very low dirt pick-up

# **APPROVALS / STANDARDS**

- CE marking and Declaration of Performance (Ref. 31191591) based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating
- Adhesion after thermal compatibility EN 13687-1:2002 (100 cycles of freeze and thaw with de-icing salts) and EN 13687-2:2002 (10 cycles of thunder shower) - Applus Laboratories, Spain, Report Nber 21/32304762
- Cleaning test as per SILKO procedure (v2:2019 § 4.2) and 20 cycles of cleaning - Applus Laboratories, Spain, Report Nber 21/32306190

## PRODUCT INFORMATION

| Chemical base | Polyorganosiloxanes polymer and solvent   |
|---------------|---|
| Packaging     | 5, 20 kg containers or 160 kg drum. Please contact Sika for available packaging variations. |
| Shelf life    | 12 months from date of production   |

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| 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 packaging. |
|---|
| Final applied finish: Semi-matt / clear   |
| ~0,92 g/cm³   |
| ~580 mPa·s (at +20 °C)<br>~430 mPa·s (at +40 °C)  |
| ~350 g/L (calculated)   |
|   |

## TECHNICAL INFORMATION

| Capillary Absorption   | 0.0026 kg/m $^2$ *h $^{0.5}$<br>Note "a" of Table 5 of EN 1504-2: When the c is <0.01 kg/m $^2$ *h $^{0.5}$ the diffusion of chloride i |                 |
|--|---|-----------------|
| Permeability to Water Vapour   | $S_D = 0.28 \text{ m}$  | EN ISO 7783-1/2 |
|  | Conforms to Class I (<5 m)  |                 |
| Freeze Thaw De-Icing Salt Resistance   | >1.8 MPa  | EN 13687-2      |
| No bubbles, cracks or surface defects after weathering. Tests were performed after 100 cycles instead of 50 cycles a EN 1504-2 |   | _               |

# **SYSTEM INFORMATION**

| System Structure | System part  | Product                                 |
|------------------|--|---|
|                  | Primer for uncoated mineral sub-   | Sikagard®-850 Primer                    |
|                  | strates  |   |
|                  | Primer for coated mineral substrates or coated wood  | Sikagard*-850 Activator                 |
|                  | Top coat   | Sikagard®-850 Clear                     |
|                  | When applied to bared mineral surfa-<br>some wet look effect. To reduce/elim<br>up is recommended:<br>Sikagard*-552 W Aquaprimer + Sikaga<br>Clear | inate this effect, the following build- |

# **APPLICATION INFORMATION**

| Consumption             | Note: Generally, 1 coat is sufficient on a suitably prepared, uniform and primed substrate.  Top coat: ~125 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. |
|-------------------------|---|
| Layer Thickness         | ~140 to 270 µm (wet film thickness)   |
| 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  |



| Final drying | Up to $\sim$ 24 hours at +20 $^{\circ}$ C for thick film build-up |  |
|--------------|---|--|
| Full cure    | ~7 days   |  |

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).

## **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.

## **IMPORTANT CONSIDERATION**

- 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.
- Nevertheless, the product can be used after a few days of opening the container after removing the skin layer and it is still workable.

# **ECOLOGY, HEALTH AND SAFETY**

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

## **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 (mineral) 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 (mineral/wood) with existing coating/lasure

- 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

- 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)

No priming is required

#### **TOP COAT**

**IMPORTANT** 

If applied over a primer or activator, refer to appropriate drying time / waiting time to overcoating.

## Application by brush or medium to long hair roller

- 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 the freshly applied coating 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 the freshly applied coating 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.
- 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.

Kindly discard them properly in recyclable center.

## **LOCAL RESTRICTIONS**

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## **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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