

PRODUCT DATA SHEET

Sikagard®-5850

Permanent anti-graffiti and anti-poster coating.

PRODUCT DESCRIPTION

Sikagard®-5850 is a 1-part ready to use, polyorganosiloxane based, permanent anti-graffiti and anti-poster coating.

USES

As a permanent non-sacrificial anti-graffiti and anti-fly poster coating on the following substrates:

- Uncoated concrete
- Cement based stucco

CHARACTERISTICS / ADVANTAGES

- Ready to use - no dilution with solvent at job site.
- Permanent/non-sacrificial – 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 – Wheatpaste posters do not bond onto protected substrate or can be easily removed, even after many cleaning cycles.
- No chemical agents required for cleaning.
- Cleaning requires only cold-water pressure 1200 – 1500 PSI (80 to 100 bar) or cold-water low pressure
- Water vapor permeable.
- 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.
- ASTM D6578: **Graffiti resistance: Class 1**
- ASTM D7089: **Effectiveness of anti-graffiti coating by pressure washing: Cleanability Level 1**

PRODUCT INFORMATION

Chemical Base	Polyorganosiloxanes polymer and solvent
Packaging	5 US gal. (18.9 L) pail
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 40 - 85 °F (5 - 30 °C). Always refer to packaging.
Density	7.76 lb./gal (0.93 g/mL)
Viscosity	~580 mPa·s at 68 °F (20 °C) ~430 mPa·s at 104 °F (40 °C)

Solid content by mass	65 - 70%
Color	Final applied finish: Clear

TECHNICAL INFORMATION

Chemical Resistance		1 day	7 days	(ASTM D1308)
	Water	No effect	No effect	
	Water + Calcium Chloride (10%)	No effect	No effect	
	Motor Oil	No effect	No effect	
	Fuel	No effect	No effect	
	Diesel	No effect	No effect	
	Ethylene Glycol	No effect	No effect	
UV Exposure	UV resistant			(ASTM D4329)
Permeability to Water Vapor	Permeance: 30.8 perm (@ 4 mils DFT)			(ASTM D1653)
Tensile Resistance	Elongation > 150 %			(ASTM D638)
Adhesion in peel	Adhesion rating: 8 (coating is difficult to remove)			(ASTM D6677)

APPLICATION INFORMATION

Coverage	160 - 200 ft ² /gal to achieve a 8 - 10 mils WFT (4.5 - 6.5 mils DFT) per coat. Note: Generally, 1 coat is sufficient on a suitably prepared, uniform substrate. This consumption is 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.
Ambient Air Temperature	Minimum ambient air temperature of 45 °F (8 °C). Maximum ambient air temperature of 95 °F (35 °C)
Relative Air Humidity	≤ 80 %
Dew Point	Substrate and ambient temperature must be at least 5 °F (3 °C) above measured Dew Point.
Cure Time	No special curing requirements, but must be protected immediately from rain for at least 4 to 5 hours at 68 °F (20 °C). Final drying Up to ~24 hours at 68 °F (20 °C) for thick film build-up Final cure ~7 days Times are approximate and will be affected by film thickness and changing ambient conditions particularly temperature and relative humidity. Anti-graffiti and anti-poster protection is achieved as soon as the coating has dried out (~24 hours).
Drying Time	4 – 6 hours when cured at 73 °F (23 °C) and 50% R.H.

SYSTEM INFORMATION

System Structure	System part	Product
	Primer (optional): to reduce wet look finish	SikaLatex R
	Top coat	Sikagard®-5850
Dry film thickness	4.5 - 6.5 mils	

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- Sikagard®-5850 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®-5850 applied using this application, disperses free aerosol vapor 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.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

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. Surface levelling or smoothing the surface is recommended before coating application.

Note: Bug holes or other irregularities of the substrate should be filled and leveled with SikaTop®, Sika MonoTop®, SikaQuick®, SikaRepair®, SikaCem®, or SikaEmaco® as appropriate. Allow for adequate cure prior to overcoating. Consult Technical Service for specific data.

Substrate without existing coating or hydrophobic impregnation

- For concrete surface preparation, refer to the ICRI No. 310.2R guideline and provide a CSP 1-2.
- 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.

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.
- Apply a test area to assess and validate the adhesion. If adhesion testing are poor or if the Sikagard®-5850 attacks/degrades the previous coating, this previous coating should be removed.
- Prepare the substrate using mechanical preparation by sanding, steam cleaning, or low pressure water-jetting. Allow adequate time for drying.

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. Allow adequate time for drying.

APPLICATION

Always perform an application test in an inconspicuous area to confirm appearance before applying to the designated area where the application will take place.

Application by brush or Nap roller:

- Apply the Sikagard®-5850 evenly over the surface.
- The coating must be continuous, pore free and to the required surface finish.
- Protect Sikagard®-5850 from heavy rain or rain showers until dry to prevent surface damage.

Application by airless spray:

- Spray apply Sikagard®-5850 in a continuous operation and at a speed to achieve a consistent thickness.
- The coating must be continuous, pore free and to the required surface finish.
- Protect Sikagard®-5850 from heavy rain or rain showers until dry to prevent surface damage.

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.

CLEANING OF TOOLS

- Clean all tools and application equipment with mineral spirits immediately after use. Hardened material can only be mechanically removed.
- Clean airless spray equipment at regular intervals to prevent hardened 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:

- Cold-water high-pressure jetting / cleaning equipment from 1200 to 1500 psi (80 to 100 bar) from a distance of approx. 4" (100 mm) 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®-5850.

They will either fall off under their own weight or can easily be removed with minimal effort.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



Product Data Sheet

Sikagard®-5850
April 2025, Version 05.01
020303080050000006

Sikagard-5850-en-US-(04-2025)-5-1.pdf

