



METHOD STATEMENT

Application of Sikagard®-850 Clear Anti-Graffiti and Anti-Fly Poster Coating

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ENGINEERED REFURBISHMENT

TABLE OF CONTENTS

1	Scope	3
2	System Description	3
2.1	Limitations	3
3	Product	3
3.1	Material Storage	3
4	Health and Safety	4
4.1	Risk Assessment	4
4.2	Personal Protection	4
4.3	First Aid	4
5	Environment	4
5.1	Cleaning Tools / Equipment	4
5.2	Waste Disposal	4
6	Substrates	5
7	Surface Preparation	5
7.1	Substrate Without Existing Treatment	5
7.2	Exposed Substrate (Mineral or Wood) with Existing Treatment	5
7.3	Coated Metallic Surface	5
8	Application	5
8.1	Temperature of Application	5
8.2	Priming/ Cleaning	5
8.2.1	Bare wood surface:	5
8.2.2	Non-coated mineral porous surface:	5
8.2.3	Mineral and wood surface coated with organic paint:	6
8.2.4	Coated Metallic Surface:	6
8.3	TopCoat	6
8.4	Fair-Faced Concrete Build-Up	6
8.5	Curing	7
8.6	Waiting Time Between Layers	7
8.7	Re-application	7
8.8	Before, During and After the Material Application	7
8.9	Performance Testing	8
9	Graffiti and Poster Removal	8
9.1	Graffiti Removal	8
9.2	Poster Removal	9
10	Legal Note	9

1 SCOPE

This Method Statement describes the step-by-step procedure for applying Sikagard®-850 Clear anti-graffiti and anti-fly-poster coating on different substrates.

2 SYSTEM DESCRIPTION

The following Method Statement refers to protection against graffiti and illegal posters.



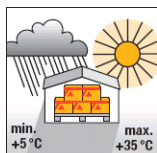
2.1 LIMITATIONS

- Products shall only be applied in accordance with their intended use.
- Local differences in product may result in performance variations. The most recent and relevant local Product Data Sheets (PDS) and Material Safety Data Sheets (MSDS) shall apply.
- This Method Statement is only a guide and shall be adapted to suit local product and standards, legislation or other local requirements.

3 PRODUCT

Sika Product Names	Type
Sikagard®-850 Primer	Primer for bare mineral substrate
Sikagard®-850 Activator	Bond promoter for coated mineral, steel, and wood surface
Sikagard®-850 Clear	Anti-graffiti topcoat
Sika® Thinner C	Cleaner agent for coated steel surface.
Sikagard®-552 W Aquaprimer	Acrylic primer for 'fair-face' concrete build-up

3.1 MATERIAL STORAGE



Materials shall be stored properly in undamaged original sealed packaging, in dry cool conditions. Refer to specific information available on the product data sheet regarding minimum and maximum storage temperatures. Protect from moisture.

4 HEALTH AND SAFETY

4.1 RISK ASSESSMENT



The risk to health and safety from falling objects or defects in the structure shall be properly assessed.

Where structures are considered to be unsafe appropriate action shall be carried out to make the working area safe.

4.2 PERSONAL PROTECTION



Work safely!

Protective clothing must be worn. Wear gloves and eye protection at all times. Always wash hands with suitable soap after handling products and before food consumption.

FOR DETAILED INFORMATION REFER TO THE RELEVANT MATERIAL SAFETY DATA SHEET

4.3 FIRST AID



Seek immediate medical attention in the event of excessive inhalation, ingestion or eye contact causing irritation. Do not induce vomiting unless directed by medical personnel.

Flush eyes with plenty of clean water occasionally lifting upper and lower eyelids. Remove contact lenses immediately. Continue to rinse eye for 10 minutes and then seek medical attention.

Rinse contaminated skin with plenty of water. Remove contaminated clothing and continue to rinse for 10 minutes and seek medical attention.

FOR DETAILED INFORMATION REFER TO THE MATERIAL SAFETY DATA SHEET

5 ENVIRONMENT

5.1 CLEANING TOOLS / EQUIPMENT

Immediately after use, clean all tools and application equipment with Sika® Thinner C. Hardened material can only be mechanically removed. Refer to the respective Product Data Sheet.

5.2 WASTE DISPOSAL



Do not empty surplus material into drains; dispose responsibly through licensed waste disposal contractor in accordance with legislation and local / regional authority requirements. Avoid run-off onto soil or into waterways, drains or sewers.

FOR DETAILED INFORMATION REFER TO THE MATERIAL SAFETY DATA SHEET

6 SUBSTRATES

The following substrates can be protected with Sikagard®-850 Clear:

- Concrete coated with water or solvent based coating
- Fair-faced concrete
- Bricks (previously treated or not with hydrophobic impregnation)
- Wood (previously treated/coated or not with a lazure or a coating)
- Coated metallic surface

7 SURFACE PREPARATION

7.1 SUBSTRATE WITHOUT EXISTING TREATMENT

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

Suitable preparation methods are steam cleaning, water jetting or blast cleaning. Smooth grinding is also possible.

The rougher the prepared surface, the more difficult it is to produce a uniform and sufficiently heavy coating film thickness. This may result in reduced protection. On mineral substrate, surface levelling with a suitable Sika® mortar is recommended – refer to the relevant Method Statement.

7.2 EXPOSED SUBSTRATE (MINERAL OR WOOD) WITH EXISTING TREATMENT

Mineral surfaces treated previously with hydrophobic impregnation shall be primed with Sikagard®-850 Primer in order to allow the primer to penetrate all pores of the substrate to increase the anti-graffiti properties of the system.

Mineral or wood surface coated with water or solvent paint / coating must be properly de-dusted and activated with Sikagard®-850 Activator prior to applying the anti-graffiti coating – refer to the Section 8.2 for details.

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

Suitable surface preparation methods can include steam cleaning, water jetting or blast cleaning.

7.3 COATED METALLIC SURFACE

Coated metallic surface shall be slightly grinded with light sandpaper to provide a micro rugosity. Then, the surface shall be cleaned with suitable thinner such as Sika® Thinner C.

8 APPLICATION

8.1 TEMPERATURE OF APPLICATION

Sikagard®-850 Clear can be applied from +8°C to +35°C if the relative humidity is lower than 80%.

Additionally, care shall be taken that the temperature must be at least 3°C above the dew point.

8.2 PRIMING/ CLEANING

8.2.1 BARE WOOD SURFACE:

No priming required.

8.2.2 NON-COATED MINERAL POROUS SURFACE:

Non-coated mineral porous surface (e.g., concrete, bricks, porous stones, external render, etc.) must first be primed using undiluted Sikagard®-850 Primer. On rough substrate, use a brush to make sure to apply the primer well in the

defects of the substrate. Allow the surface to dry and become tack-free prior to apply the topcoat (~2 to 3 hours depending on weather conditions).

8.2.3 MINERAL AND WOOD SURFACE COATED WITH ORGANIC PAINT:

Mineral and wood surfaces coated with organic paint shall be primed first with Sikagard®-850 Activator at a rate of approximately 50 to 100 g/m². Apply by brush, medium to long hair roller or impregnated cloths. Apply as thin as possible and free of air bubbles. Allow the surface to dry before applying the topcoat, but do not wait longer than 5 hours after priming the surface.

8.2.4 COATED METALLIC SURFACE:

After suitable surface preparation (refer to the section 7.3), apply Sikagard®-850 Activator at a rate of approximately 50 to 100 g/m². Apply by brush, medium to long hair roller or impregnated cloths. Apply as thin as possible and free of air bubbles. Allow the surface to dry before applying the topcoat, but do not wait longer than 5 hours after priming the surface.

8.3 TOPCOAT

When applied manually, generally a single application is required. Only if the surface is rough, then a second coat may be required to allow a continuous film build-up.

On small to medium surface areas, apply the product using a suitable long-haired roller or brush, and apply enough to achieve a homogeneous film.

The manual application of the topcoat is carried out with undiluted product.

For large surface area, airless spray application can be done using air assisted airless equipment with the following characteristics:

- Pressure: 220 to 250 bars (3200 - 3600 psi)
- Hose: ~10 mm Ø (3/8")
- Tip: 0.18° to 0.22°
- Filter: 60 mesh

Using airless application, it may be necessary to dilute Sikagard®-850 Clear with 10 to 20% white spirit. To achieve sufficient film thickness, a second topcoat may be required.

As the product is very viscous, the airless spray may not give a homogeneous finish. It may be necessary to have another team back rolling the application with a roller to ensure proper finish and film build-up. This will depend on the skill of the operator – preliminary test is strongly advisable.

DO NOT USE aerosol car body type, spray equipment to apply this product.



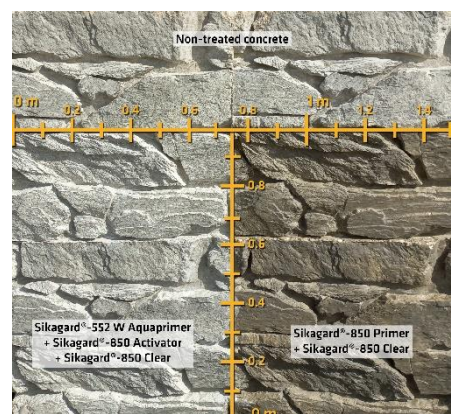
8.4 FAIR-FACED CONCRETE BUILD-UP

When applied on bared concrete surface, typically Sikagard®-850 Clear provides a wet-look finish.

To avoid this wet look, and maintain the original aspect of the concrete as shown in the picture (non-treated concrete is in the middle of the plate – barely any difference to the areas where pull-off dollies are placed – treated by the described build-up), the following build-up shall be followed:

Sikagard®-552 W Aquaprimer followed by Sikagard®-850 Activator and finally Sikagard®-850 Clear.

Sikagard®-850 Activator shall ALWAYS be used after the application of the acrylic primer as to apply directly the topcoat on the acrylic primer induces a significant reduction in the adhesion of the topcoat.



8.5 CURING

Sikagard®-850 Clear does not require any special curing but must be protected from rain for at least 4 hours.

8.6 WAITING TIME BETWEEN LAYERS

Each product requires a specific time between coats to allow the volatile compounds of the previous layer to fully vaporise and be tack-free before the next coat is applied.

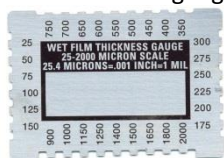
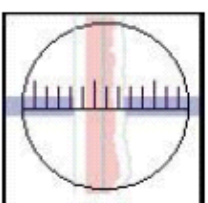
1 st Coat	Waiting Time	Subsequent Coat
Sikagard®-850 Primer	2-3 hours	Sikagard®-850 Clear
Sikagard®-850 Activator	1-2 hours	Sikagard®-850 Clear
Sikagard®-552 W Aquaprimer	~5 hours	Sikagard®-850 Activator

8.7 RE-APPLICATION

Sikagard®-850 Clear coating is a 'permanent' solution, allowing repeated cycles of cleaning.

In some cases (e.g., mechanical deterioration), a refresher coat of Sikagard®-850 Clear may be necessary. This can be done without priming if the existing coat has been thoroughly cleaned.






8.8 BEFORE, DURING AND AFTER THE MATERIAL APPLICATION

Characteristic	References	Frequency	Parameters
Substrate humidity	Visual, site sampling and lab analysis, etc.	Before and throughout the application	No damp patches <6%
Temperature (ambient and substrate)		Throughout the application	Within the data sheet limits
Ambient humidity		Throughout the application	Within the data sheet limits
Precipitation		daily	As recorded
Wind		Before and during application	<8 m/s
Batch number		Each time new material is provided on site	As recorded
Wet film thickness	Comb or wheel gauge 	Immediately after application while the coating is still fresh	Typically, 160 to 210 µm
Dry film thickness	Wedge cut 	Once to judge the efficiency	Typically, 90 to 120 µm

8.9 PERFORMANCE TESTING

When required, the following can be used to check the adequacy of the application:

Characteristic	References	Frequency	Parameters
Dry film thickness	ISO 2808	Once to judge the efficiency	Within requirement
Cross cut (DFT <500 µm)	EN ISO 2409-6	Once for each type of surface or member	GT<2 (refer to table below for detail)

Cross Cut Classification as per EN ISO 2409		
Classification	Description	Aspect
GT 0	Sides of cutting are perfectly smooth: none of the square has debonded.	
GT 1	Some partial debonding of the coating at some intersection of the grid that affects approximately 5 % of the grid.	
GT 2	The coating debonds partially along the cutting edge or at the intersection and this represent more than 5% but less than 15 % of the grid.	
GT 3	The coating gets partially or totally debonded in bands or large portions at various areas of the grid. the debonded part represent more than 15% but less than 35% of the grid part.	
GT 4	As GT 3, but the debonded part represents more than 35 % but less than 65% of the grid.	
GT 5	Everything that cannot be classified as above.	

9 GRAFFITI AND POSTER REMOVAL

9.1 GRAFFITI REMOVAL

As a general rule, always remove any subsequent graffiti as soon as possible.

Clean using cold water pressure jetting / cleaning equipment (~80 to 100 bars / ~1,200 to 1,450 psi) – DO NOT use the pressure water too near the surface to be cleaned as this may damage the protective coating – recommended distance is ~10 cm.

Alternatively, the graffiti can also be removed using a simple hose rubbing down with a suitable absorbent clean cloth or a soft brush, taking care not to remove the protective coating.

In rare cases, some light shadows of the graffiti may remain after the cleaning. Adding a bit of bleach in the water pressure jetting system may help to eliminate these shadows.

DO NOT use a rotative head for the pressure spray as this may lead to too high pressure being applied, and may damage the coating.

9.2 POSTER REMOVAL

Posters applied with typical glues do not bond on substrates treated with Sikagard®-850 Clear. Either they will fall down under their own weight, or they can be easily removed with minimal effort.

10 LEGAL 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 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 products 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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Method Statement
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