

PRODUCT DATA SHEET

Sikagard®-850 AG

PERMANENT CLEAR ANTI-GRAFFITI AND ANTI-FLYPOSTER COATING

DESCRIPTION

Sikagard®-850 AG is a permanent anti-graffiti and anti-flyposter coating for the protection of concrete, wood, masonry and metal substrates.

Sikagard®-850 AG provides a clear wet-look surface that also brightens and enhances the color of the substrate.

Sikagard®-850 AG is based on polyorganosiloxanes and provides excellent performance against exterior elements such as rain, sun and temperature extremes.

USES

Sikagard®-850 AG is used as permanent anti-graffiti and anti-flyposter coating. There is no need of a refreshing coat after the cleaning operation that can be performed many times.

Typical substrates:

- Fair faced concrete, masonry
- Coated concrete, masonry
- Mineral substrate previously treated with hydrophobic impregnation

- Metallic surfaces (coated or not)
- Wooden surface treated or not

CHARACTERISTICS / ADVANTAGES

- Permanent – graffiti can be removed various times without damaging the protection
- Poster prevention – flyposter simply cannot stick on treated surface
- No chemical agent required for cleaning
- Cleaning requires only cold water pressure (80 to 100 bars). Alternatively, graffiti can be removed using a simple hose and rubbing down with a suitable absorbent clean cloth or stiff brush
- Water vapour permeable
- Low water absorption
- Very good resistance against weathering and ageing
- High UV resistance and gloss retention
- Very low dirt pick-up
- Colour enhancement – wet look
- Can be tinted on site with pigment suitable for solvent containing product

PRODUCT INFORMATION

Composition	polyorganosiloxanes polymer and solvent	
Packaging	25 kg pail or 180 kg drum	
Shelf life	12 months from date of production if stored properly in undamaged and unopened original sealed packaging	
Storage conditions	Store in cool (below 30 °C) and dry conditions. Protect from direct sunlight.	
Density	~ 0.939 kg/l (at +20 °C)	(DIN 51757)
Flash Point	~54 °C	(ISO 3679)
Solid content	> 90 %	
Volatile organic compound (VOC) content	< 140 g/l	Calculated

APPLICATION INFORMATION

Thinner	Sikagard®-850 AG can be thinned to the desired application viscosity with white spirit.	
Consumption	Typically ~150 to 250 g/m ² for the top coat – generally 1 coat is sufficient on a suitably prepared, uniform and primed substrate.	
Layer Thickness	Typical dry film thickness can range from 150 to 300 µm depending of the substrate type and roughness	
Ambient Air Temperature	+8 °C min. / +35 °C max.	
Relative Air Humidity	< 80 % RH	
Dew Point	Temperature must be at least 3 °C above dew point.	
Curing Treatment	Sikagard®-850 AG does not require any special curing but must be protected from rain for at least 4 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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate without existing treatment

The surface must be dry, sound and free from loose and friable particles. Suitable preparation methods are steam cleaning, high pressure water jetting or blast cleaning. 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. Surface levelling with a suitable Sika mortar is recommended. Metallic surface must be de-rusted and de-greased properly.

Exposed substrate with existing treatment

Mineral surfaces treated previously with hydrophobic impregnation do not require specific treatment prior to application of the anti-graffiti coating. Surfaces (mineral or metallic) coated with organic paint/coating need to be tested. The surface must be clean, dry, sound and free from loose or friable particles. Suitable surface preparation methods can include steam cleaning, high pressure water jetting or blast cleaning.

APPLICATION

Primer

All surfaces but wood, must first be primed using Sikagard®-850 AG diluted with 20 to 30 % white spirit. 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 top coat (~2 to 3 hours depending on weather conditions). Wood surfaces (painted and unpainted) do not require priming.

Top Coat

For the top coating, on small to medium surface area, apply Sikagard®-850 AG using a suitable long haired roller or brush

Generally	apply un-diluted
Application at >25 °C or directly in the sun	dilute with <15 % by weight white spirit

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 mmø (3/8")
- Tip: 0.13° to 0.17°
- Filter: 60 mesh

All coats shall be diluted up to 30% with white spirit. In order to achieve sufficient film build up a second top coat may be required.

As Sikagard®-850 AG is very viscous, the airless spray does not give a homogeneous finish. It is necessary to have another team back-rolling the application with a roller to ensure proper finish and film build-up. DO NOT USE aerosol car body type, spray equipment to apply Sikagard®-850 AG.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with white spirit immediately after use. Dried material can only be removed mechanically. Clean airless equipment at regular interval as some harden silicon materials may block the equipment.

MAINTENANCE

CLEANING

Graffiti Removal

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

Do this using cold water pressure jetting / cleaning equipment (~80 bars / 1 200 psi). Alternatively, the graffiti can also be removed using a simple hose and

rubbing down with a suitable absorbent clean cloth.

Poster removal

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

IMPORTANT CONSIDERATIONS

- Sikagard®-850 AG is intended for the use in industrial and commercial applications where personal protective equipment is required and mandatory.
- Sikagard®-850 AG is not suitable for nor recommended for aerosol based applications. Use of Sikagard®-850 AG in this manner disperses free aerosol vapour droplets in the air. Breathing these free droplets in the air poses extremely serious health risks and raises the possibility of harmful consequences to any individual associated with such improper use and handling of Sikagard®-850 AG. Containers, once opened, should be used until empty. Any remaining coating, exposed to air will continue to cure and thicken resulting in surface skinning and increased viscosity. few days after opening, the product can still be used providing the skin layer is removed.
- Sikagard®-850 AG can be thinned to the desired application viscosity with white spirit. Other solvents may be used however all combinations must be tested to ensure clarity of the coating, solvency and stability. Weak solvent combinations can lead to a loss of cure, clarity or even precipitation of the coating's solids. For this reason methyl acetate is not recommended.

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.

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.

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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.

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 500s g/l (Limits 2010) for the ready to use product.

The maximum content of Sikagard®-850 AG 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.

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