

PRODUCT DATA SHEET

Sikagard[®]-1855 G

Single component, high build hydrophobic coating for foundations

DESCRIPTION

Sikagard[®]-1855 G is a single component high build hydrophobic coating for foundations. This water based, protective coating formulated from high performance acrylic polymers, able to be applied even upon green concrete at 24 hours after placing. When cured, Sikagard[®]-1855 G provides excellent abrasion and chemical, including acid, resistance. Suitable for use in hot and tropical climatic conditions.

USES

Sikagard[®]-1855 G is developed to protect concrete sub- strates from corrosion and deterioration. It is an ideal protective coating for underground structures and foundations and can be applied on green concrete, serving as a curing compound as well as protection, saving time, labor and cost.

FEATURES

- One component and easy to apply
- Good abrasion and chemical resistance
- UV stable
- Can be applied over damp surfaces
- Can be applied over green concrete to act as a curing compound in addition to a protective coating
- Environmentally friendly and safe to use (free from hazardous materials/ carcinogens such as coal tar pitch, hydrocarbon-based solvents, aromatic amines, asbestos and can be used in confined spaces)

PRODUCT INFORMATION

Packaging	19 L unit	
Colour	Grey	
Shelf life	12 months from date of production	
Storage conditions	Store in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +15 °C and +25 °C. Protect from direct sun light, heat and moisture.	
Density	~1.29 kg/l (25°C)	(ASTM D1475)
Solid content by volume	~45 %	(ASTM D2697)

TECHNICAL INFORMATION

Tensile adhesion strength	≥ 1.0 N/mm ²	(ASTM D4541)
Chemical resistance	Lactic Acid 20 %	Resistant
	Acetic Acid 20 %	Resistant
	Nitric Acid 5 %	Resistant
	Ethylene Glycol 40 %	Resistant
	Copper Sulphate 25 %	Resistant
	Zinc Sulphate 25 %	Resistant
	Magnesium Sulphate 25 %	Resistant
	Tap Water	Resistant
	Sea Water	Resistant
	Ground Water	Resistant
	High Sulphate Water	Resistant
	Distilled Water	Resistant
	Sikagard®-1855 G is meant to be used as a protective coating against below ground environment and external applications. It is not suitable to be used as a high chemical resistant coating against strong acids and alkalis. Contact Sika Technical Services Department for specific details.	
Water absorption	~0.2 %	(BS 1881, Part 122)
Chloride ion permeability	Very low	(ASTM C1202)

APPLICATION INFORMATION

Consumption	As a guide: 2.5 m ² per litre at 400-micron wet film thickness (WFT), per coat. Min. two coats application is recommended. Please refer to Method Statement for system specific coverage rates. Note: These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc..	
Layer thickness	Min. 360 microns dry film thickness (DFT), achieved by application in 2 coats, each 180 microns DFT. Higher thickness can be achieved with multiple coat cross-wise application.	
Material temperature	+15 °C min. / +30 °C max.	
Relative air humidity	≤ 85 %	
Dew point	Temperature must be at least 3 °C above dew point	
Substrate temperature	+10 °C min. / +40 °C max.	
Curing time	7 days at 25 °C	
Waiting time to overcoating	6–7 hours at 25 °C between 1 st and 2 nd coat. Refer to Method Statement if multiple coat application is required. Times are approximate and will be affected by changes in ambient conditions, particularly temperature and relative humidity	
Drying time	~45 min. at 25°C	(ASTM D1640)
Times are approximate and will be affected by changes in ambient conditions, particularly temperature and relative humidity.		

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Do not apply, or properly protect applied area, if imminent rain is expected.
- The drying time of the material is influenced by the humidity, wind speed, ambient and substrate temperatures. At high temperatures the time required for the coating to be surface dry is shortened accordingly.

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

SUBSTRATE PREPARATION

The surface to which Sikagard®-1855 G is applied should be clean and free from oil, salt, grease and any other substances which may impair adhesion.

MIXING

Sikagard®-1855 G should only be well stirred before use.

APPLICATION

Sikagard®-1855 G can be applied by brush or short nap paint roller in min. 2 coats. Application should take place within the overcoating intervals of the coating. If the overcoating interval is missed, then the surface of existing coat should be lightly abraded and cleaned prior to recoating.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean / soapy water immediately after use. Hardened and/or cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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