



BUILDING TRUST



PRODUCT DATA SHEET

Sikagard®-309 W

Single component, waterborne, polyurethane based hygienic interior wall coating (Formerly WALGARD WB)

DESCRIPTION

Sikagard®-309 W is a single component, coloured, waterborne polyurethane dispersion based surface coating that provides rich, lustrous, very smooth hygienic surface.

USES

Sikagard®-309 W may only be used by experienced professionals.

- Coloured seal coat for internal walls and ceilings
- Suitable on concrete, bricks, cement based and gypsum substrates, metallic surfaces, timber, tiles etc.
- Suitable for clean rooms in the pharmaceutical and medical industry. Also suitable for food and beverage industry, hospitals, healthcare facilities, kitchens, prisons, leisure facilities & many more industries
- Maintenance layer on existing coatings

CHARACTERISTICS / ADVANTAGES

- Easy application
- Fast drying, two coats in one working day
- Elastomeric, resists cracking and flaking
- Good resistance to repeated cleaning regimes using mild detergents and cleaning solutions
- Seamless, semi-glossy, easy clean finish
- Good covering and hiding power (opacity)
- Low odour
- Low VOC

PRODUCT INFORMATION

Composition	Polyurethane dispersion
Packaging	25 kg container
Shelf life	6 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C.
Appearance and colour	Coloured liquid. Available in many colours subject to minimum order quantity. Please contact Sika representative for details. IMPORTANT: Applied colours selected from colour charts will be approximate. IMPORTANT: For colour matching, apply colour sample and confirm selected colour under real lighting conditions. IMPORTANT: Colour uniformity cannot be completely guaranteed from batch to batch. Do not mix batch numbers in a single area.

Density	~1.3 kg/L (+30 °C)	(EN ISO 2811-1)
Solid content by mass	~55 %	

TECHNICAL INFORMATION

Tensile strength	≥ 1.5 N/mm ²	(ASTM D412)
Tensile strain at break	≥ 200 %	(ASTM D412)
Tensile adhesion strength	~2.0 N/mm ²	(EN 1542)

SYSTEM INFORMATION

System structure	Layer	Product
	Primer	Sikagard®-309 W + 10 % clean water
	Top coat	Sikagard®-309 W

Dry film thickness ~100–110 micron in 2 coats

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sikagard®-309 W+ 10% clean water	~0.15–0.20 kg/m ²
	Top coat	Sikagard®-309 W	~0.10–0.12 kg/m ² per coat

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

Ambient air temperature +15 °C min. / +30 °C max.

Relative air humidity 80 % max.

Dew point Beware of condensation. The substrate temperature and uncured material during application must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the wall finish.

Substrate temperature +15 °C min. / +30 °C max.

Waiting time to overcoating	Substrate temperature	Minimum	Maximum
	+20 °C	8 hours	48 hours
+30 °C	6 hours	48 hours	

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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.

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

EQUIPMENT

Mixing equipment

- Electric single paddle mixer (300 to 400 rpm)

Application equipment

- Short pile roller
- Sponge roller
- Paint brush
- Airless spray

SUBSTRATE QUALITY / PRE-TREATMENT

- The substrate must be sound, clean, dry and free of

all contaminants such as dirt, oil, laitance, mould, grease, coatings and surface treatments, etc.

- Brick work, block work, stone work: Inspect the substrate.
- Spalling, flaking or damaged areas should be repaired using compatible materials to match surroundings or replaced as necessary. If in doubt apply a test area first.
- All surfaces to be coated should be thoroughly cleaned by conventional means.
- Ensure that surfaces are free from visible dampness and that all dust, loose and friable material is completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

MIXING

Primer

1. Stir Sikagard®-309 W thoroughly for 1 minute before dilution.
2. Pour into a clean container and mix in the appropriate amount of water.

Coating

1. Stir Sikagard®-309 W thoroughly for 1 minute in order to achieve a homogeneous mixture.

Note: Overmixing must be avoided to minimise air entrainment.

APPLICATION

IMPORTANT

Application during falling temperatures

Always apply during falling temperatures. If applied during rising temperatures, pin holes may occur from rising air.

IMPORTANT

Use same application equipment

Each type of roller will give a slightly different surface finish, always use same roller type in same areas. Airless spray will lead to a surface smoother than roller applied areas, use same application type in same areas.

IMPORTANT

Full dry before overcoating

Ensure entire surface is fully dried before over coating. Cracking may occur when over coating un-dried areas. Always ensure good ventilation when application takes place in a confined space to ensure drying.

Primer

1. Apply diluted primer onto the prepared substrate by a short pile roller, sponge roller, brush or airless spray. Ensure a continuous, pore free coat covers the substrate.

Note: Confirm waiting /overcoating time has been achieved before applying subsequent products.

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Seal coat for smooth surfaces

1. Pour the mixed Product onto the substrate. Note: The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a short pile roller, sponge roller, brush or airless spray.
3. Back roll the surface in two directions at right angles with a short pile roller. Note: A seamless finish can be achieved if a "wet" edge is maintained during application.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened 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.

Product Data Sheet

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