

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-307 W

Single component, waterborne modified acrylic/polyurethane dispersion based surface coating with a gloss finish

### DESCRIPTION

Sikagard<sup>®</sup>-307 W is a single component waterborne polyurethane based coating, designed with specific hygiene functionality. The in film preservation is designed to remain permanently locked in and active ensuring no growth of surface micro-organisms on the Sikagard<sup>®</sup>-307 W. Sikagard<sup>®</sup>-307 W is available in white. Custom colors required 10 to 15 business days lead time.

### USES

Sikagard<sup>®</sup>-307 W may only be used by experienced professionals.

- Internal walls and ceilings of environments that require continuously sanitary conditions.
- Pharmaceutical
- Food & Beverage
- Bio-tech manufacturing
- Hospitals
- Clean rooms
- Laboratories

### CHARACTERISTICS / ADVANTAGES

- Single component waterbased, low odor
- Hard finish and impact; scratch and abrasion resistant
- Gloss, easy clean finish
- Non-yellowing
- Fast development of physical strength
- Rapid drying, same day re-coat if necessary
- One coat finish (airless spray)
- Leach resistant in film preservative

### PRODUCT INFORMATION

<b>Chemical Base</b>	Waterborne acrylic/polyurethane copolymer dispersion	
<b>Packaging</b>	5 gallon pails	
<b>Shelf Life</b>	24 months (when stored under the recommended conditions)	
<b>Storage Conditions</b>	Store between 50–90 °F (10–32 °C)	
<b>Density</b>	10.43 lb./gal. ( ~1.26 kg/l)	(DIN EN ISO 2811-1)
<b>Solid content by weight</b>	49 %	
<b>Solid content by volume</b>	36 %	

Volatile organic compound (VOC) content 0.22 lb./gal. (81.7 g/l)

## TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	113 mg weight loss	(ASTM D 4060, CS10 Wheel, 1000 g load)
<b>Tensile Strength</b>	Unreinforced - 2326 psi (16 N/mm <sup>2</sup> )	(BS EN ISO 27-3)
<b>Elongation at Break</b>	24 hours	<b>Tensile Elongation</b> (BS EN ISO 527-3- Unreinforced) maximum stress (tensile load at break) = 6.8 N/mm <sup>2</sup> or 987 psi elongation at break = 110%
	48 hours	maximum stress (tensile load at break) = 7.2 N/mm <sup>2</sup> or 1045 psi elongation at break = 87%
	72 hours	maximum stress (tensile load at break) = 13.2 N/mm <sup>2</sup> or 1920 psi elongation at break = 50%
<b>Gloss level</b>	> 60 gloss units at 60 degree (Classified as "gloss" to BS EN 13300:2001)	
<b>Chemical Resistance</b>	Standard 10 % solutions of acids and alkalis, including Nitric Acid AND Caustic Soda, failed to cause breakdown of the Sikagard®-307 W.	

## APPLICATION INFORMATION

<b>Consumption</b>	400 sq.ft./gal., 4 mils WFT, recommended 2 coats
<b>Curing Time</b>	at 50 °F/60 % R.H.: Touch dry 45 mins, through cure 1 hour. at 68 °F/55 % R.H.: Touch dry 30 mins, through cure 45 mins. at 86 °F/50-60 % R.H.: Touch dry 15–20 mins, through cure 30–45 mins.

Application of Sikagard 307 W over Sikagard 307 W

<b>Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
50 °F (10 °C)	4 hours	7 days
68 °F (20 °C)	1 hours	7 days
86 °F (30 °C)	1 hours	7 days

Application of Sikagard 307 W over Sikagard 203 W

<b>Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
50 °F (10 °C)	24 hours	7 days
68 °F (20 °C)	4 hours	7 days
86 °F (30 °C)	4 hours	7 days

## 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.

## LIMITATIONS

- Do not apply near foodstuffs in unventilated conditions. Always ensure adequate ventilation.
- Do not thin or brush out like conventional paints (thinning for primer use is permissible).
- Do not apply the products below a minimum tem-

perature of 40 °F (4 °C) or a maximum of 90 °F (32 °C) throughout the application period. Conditions must remain a minimum of 40 °F (4 °C) and 5 °F (-15 °C) above the dew point.

- Protect from frost and heat (above 90 °F (32 °C)).
- Product is not suitable for open fibrous insulation.
- Sikagard®-307 W is normally intended to be used internally, however if used externally the natural weathering process of the material may cause slight darkening of the colors and progressive loss of gloss with time. All colors are intermixable.
- If there is any question as to whether or not the product will adhere to an existing coating or surface,

a test patch should be applied and evaluated for compatibility and adhesion.

- Application by roller may result in a slight surface texture when using standard coverage rates. If a smoother finish is required apply 3 thinner coats to achieve desired DFT.
- Previous coat must be completely dry prior to overcoating.
- Ensure entire surface is fully dried before proceeding. Cracking may occur when overcoating undried surfaces or when material is applied in a heavy application.
- Good ventilation is required for Sikagard®-307 W to dry properly.
- Gloss is effected by humidity and temperature.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- If additional heating is required, do not use gas, oil, paraffin or other fossil fuel heaters; these methods produce large quantities of carbon dioxide and water vapor, which may adversely affect the finish. Use only electric powered warm air blower systems.
- New concrete should be allowed to cure/hydrate for a minimum of 10 days and preferably 28 days.

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, laitance, mold, grease and surface treatments. Remove loose material mechanically, or high pressure washing. All surfaces to be coated should be clean and free from dampness. Pre-fill any static cracks with a proprietary flexible latex/acrylic caulk. Consult Sika Technical Service.

**New Drywall:** Minimum level 4 finish, prime with Sika Bonding Primer thinned 10 % with water. (Note: Sikagard®-307 W cannot be applied directly over Sika Bonding Primer. An intermediate coat of Sikagard®-307 W is required at 6–8 mils.)

**Painted Surfaces:** Always ensure that the existing paint is fully adhered and sound. Abrade surface using 100 grit screen or paper. Epoxy paints, bitumen paints must be abraded using 100 grit and primed using Sika Bonding Primer, followed by a 6–8 mil coat of Sikagard®-307 W. All painted surfaces that are abraded require cleaning. CMU Block, poured in place concrete: Spalled, flaking or damaged areas should be repaired using compatible materials. Sikagard®-307 W can be used as a primer when diluted with 25 % water. Sikagard®-307 W can be used as a block filler on new block. Like surfaces that requires a fill/ parge coat should use Sikagard EpoCem 75 (consult product data

sheet). Sikagard®-307 W can be applied directly to cured/sanded EpoCem 75.

**Cement screeds, plaster asbestos cement, lining boards:** For absorbent substrates Sikagard®-307 W may be diluted with 25 % of clean water as a primer to kill suction. Dusty/friable substrates, seal with Sika Bonding Primer and an immediate coat of Sikagard 205 W to stabilize.

**Concrete:** Ensure new concrete is at least 10 days, preferably 28 days old, with moisture content of 20 % WME or less. Prime using Sikagard®-307 W diluted 25 % with water.

**Wood:** (Damp Free maximum 18% wood moisture equivalent) Apply Sikagard®-307 W directly. If wood is prone to raised grain then prime with Sikagard®-307 W diluted with 25 % water, when dry, lightly sand and apply Sikagard®-307 W to correct film thickness.

**Metals:** Remove rust to bright metal. Apply Sikalastic Metal Primer WB or Sikalastic Metal Primer, use 2 coats on badly pitted or blast prepared surfaces. Non-ferrous metals can be wired brushed to remove oxidation products, prime as above. Degrease or use proprietary metal pretreatment fluid on galvanized if greasy.

**Plastics/Insulation:** Most plastics can be coated directly. Use Sika Bonding Primer on selfskinning or slabstock polyurethane/polystyrene foams. Product is not suitable for open fibrous insulation. Dusty/friable substrates require sealing with Sika Bonding Primer and an immediate coat of Sikagard®-307 W to stabilize.

**Overcoating Sikagard®-307 W:** Clean off all contamination lightly abrade with 100 grit and apply Sikagard®-307 W directly.

### MIXING

Pre-mix material using a drill and jiffy blade (300–450 rpm)

### APPLICATION

**Rollers** - Product may be applied by short to medium 1/4–3/8 in. pile synthetic rollers. Two coats are recommended. Rollers are also used during reinforcement embedment.

**Brushes** - A wide soft nylon or bristle brush, Two coats are recommended, ideally product is applied with second coat at 90° to first.

**Spray Equipment** - Most types of industrial airless spray equipment e.g. GRACO ULTRA are suitable, pressure 3,000 p.s.i. tip size .11 to .15 and 60° fan angle. Although the product is designed with built in flow, the finer tip sizes provide the smoothest finish.

### Tooling & Finishing

Note: All reinforcements using Flexitape and Reemat GFM must use Sikagard 203 W as the Finishing base coat.

### CLEANING OF TOOLS

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Clean brushes and spray equipment with water. Dried Sikagard®-307 W can be removed with paint stripper, cellulose thinners, xylene or toluene. Use personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations.

## 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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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