

## **Sikagard®-205 W (Sterisheen)**

Single component, waterborne modified acrylic resin surface coating with a mid-sheen finish

---

**Product Description** Sikagard®-205 W is a single component, coloured, waterborne modified acrylic resin based surface coating containing a silver based in-film preservative.

---

**Uses**

- Coloured coating for internal walls and ceilings
- For concrete, bricks, cement based and gypsum substrates, metallic surfaces, timber, tiles and plastic
- Suitable for clean rooms in the pharmaceutical and medical industry. Also suitable for food and beverage industry, hospitals, healthcare facilities, kitchens and prisons and leisure facilities
- 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
- Tough and highly durable
- Good water vapour permeability
- Seamless, easy clean finish
- Mid-sheen finish
- Good covering and hiding power (opacity)
- Low odour

---

### **Tests**

---

#### **Approval / Standards**

---

**Water Vapour Diffusion** 25.4 g/m<sup>2</sup>/day at 130µm DFT, acc. EN ISO 7783-2 (temperate)

---

**Fire Resistance** Rated class 0, acc. BS 476 Part 6 & 7

---



## Product Data

### Form

<b>Appearance / Colour</b>	Resin: Liquid, coloured Standard colour shade: light grey (RAL 7035), pearl white (RAL 1013), cream white (RAL 9001), grey white (RAL 9002), white (RAL 9010), light blue (RAL Design 240 80 20), sage (RAL Design 140 90 05), magnolia (RAL Design 085 90 10) Special colours may be made to order subject to minimum order quantities.
<b>Packaging</b>	Sikagard <sup>®</sup> -205 W (Sterisheen): 5.0 litres (= 6.40kg) containers 15.0 litres (= 19.20kg) containers

### Storage

<b>Storage Conditions/ Shelf-Life</b>	18 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +25°C. Avoid exposure to frost and sources of heat.
---------------------------------------	---

### Technical Data

<b>Chemical Base</b>	Waterborne acrylic copolymer dispersion
<b>Density</b>	Sikagard <sup>®</sup> -205 W (Sterisheen): ~ 1.28 kg/l (DIN EN ISO 2811-1)
<b>Solid Content</b>	~ 41.3 % (by volume) / ~ 54.3% (by weight)
<b>Adhesion</b>	<i>To concrete:</i> > 1.5 N/mm <sup>2</sup> (failure in concrete)
<b>Gloss</b>	15-25 gloss units @ 60° (Classified as "mid sheen" to BS EN 13300:2001)
<b>Opacity (Contrast Ratio)</b>	>99.5% (standard DFT) (Classified as "class 1" to BS EN 13300:2001)
<b>Surface Granularity</b>	<0.01mm (Classified as "fine" to BS EN 13300:2001)
<b>Resistance to UV</b>	No appreciable change other than a minor reduction in gloss. (ASTM G154-04: 2500 hours QUV-B)

### Mechanical / Physical Properties

<b>Tensile load at break:</b>	Unreinforced: approx.: 11 N/mm <sup>2</sup> (BS EN ISO 527-3) Sika <sup>®</sup> Reemat Lite: approx.: 15 N/mm <sup>2</sup> (BS EN ISO 527-3)
<b>Tensile Elongation:</b>	Unreinforced: approx.: 30% (BS EN ISO 527-3) Sika <sup>®</sup> Reemat Lite: approx.: 6% (BS EN ISO 527-3)
<b>Hardness (Persoz)</b>	55

### Resistance

<b>Chemical resistance</b>	10% solutions of acids and alkalis including nitric acid and caustic soda failed to cause breakdown of the membrane
<b>Wet Scrubbing (EN ISO 11998:2006)</b>	Loss in coating mass: 2.51 g/m <sup>2</sup> . Mean loss of film thickness: 1.54 microns (Classified as "Class 1" to BS EN 13300:2001)

## System Information

### System Structures

#### System 1:

Good surface of blockwork, brick, stone, calcium silicate board, concrete, high pressure laminate, insulation materials, mastic, moisture resistant plasterboard, plasterboard, sand & cement render, tiles and timber (please refer to Technical Customer Services for further information):

Primer: 1 x Sika® Bonding Primer  
Top coat: 2 x Sikagard®-205 W

#### System 2:

Maintenance of good surfaces of blockwork, brick, stone, calcium silicate board, concrete, high pressure laminate, insulation materials, mastic, moisture resistant plasterboard, plasterboard, sand & cement render, tiles and timber (please refer to Technical Customer Services for further information):

Primer: 1 x Sika® Bonding Primer  
Intermediate coat:  
coat: 1 x Sikagard®-203 W  
Top coat: 2 x Sikagard®-205 W

#### System 3:

Poor surface of blockwork, brick, stone, calcium silicate board, concrete, high pressure laminate, insulation materials, mastic, moisture resistant plasterboard, plasterboard, sand & cement render, tiles and timber on areas where medium or heavy mechanical stress is expected (please refer to Technical Customer Services for further information):

Primer: 1 x Sika® Bonding Primer  
Intermediate coat: 1 x Sikagard®-203 W  
embedment coat , with either Sika® Reemat Lite or Premium (depending upon specification)  
1 x Sikagard®-203 W  
Top coat: 2 x Sikagard®-205 W

#### System 4:

Poor surface of blockwork, brick, stone, calcium silicate board, concrete, high pressure laminate, insulation materials, mastic, moisture resistant plasterboard, plasterboard, sand & cement render, tiles and timber on areas where high mechanical stress or strong impact stress is expected (please refer to Technical Customer Services for further information):

Primer: 1 x Sika® Bonding Primer  
Intermediate coat: 1 x Sikagard®-203 W  
embedment coat , with Sika® Reemat Premium followed wet in wet by Sika® Reemat Lite  
1 x Sikagard®-203 W  
Top coat: 2 x Sikagard®-205 W

#### Note:

- For metal substrates apply 1 x Sikalastic® Metal Primer instead of Sika® Bonding Primer (please refer to Sikalastic® Metal Primer product datasheet for further information).
- Timber must be knot stopped, stable, free from shakes and non-checking. Sand if necessary and apply Bonding Primer.

## Application Details

### Consumption / Dosage

Coating System	Product	Consumption
<b>System 1</b>		
Primer	1 x Sika® Bonding Primer	Approx. 0.10 kg/m <sup>2</sup>
Top coat	2 x Sikagard®-205 W	Approx. 0.21 kg/m <sup>2</sup> , each coat
<b>System 2</b>		
Primer	1 x Sika® Bonding Primer	Approx. 0.10 kg/m <sup>2</sup>
Intermediate coat	1 x Sikagard®-203 W	Approx. 0.35 kg/m <sup>2</sup>
Top coat	2 x Sikagard®-205 W	Approx. 0.21 kg/m <sup>2</sup> , each coat
<b>System 3</b>		
Primer	1 x Sika® Bonding Primer	Approx. 0.10 kg/m <sup>2</sup>
<b>System 3.1</b>		
Intermediate coat with Sika® Reemat Lite	1 x Sikagard®-203 W 1 x Sika® Reemat Lite 1 x Sikagard®-203 W	Approx. 0.35 kg/m <sup>2</sup> Approx. 0.03 kg/m <sup>2</sup> Approx. 0.35 kg/m <sup>2</sup>
<b>System 3.2</b>		
Intermediate coat with Sika® Reemat Premium	1 x Sikagard®-203 W 1 x Sika® Reemat Premium 1 x Sikagard®-203 W	Approx. 1.40 kg/m <sup>2</sup> Approx. 0.225 kg/m <sup>2</sup> Approx. 0.70 kg/m <sup>2</sup>
Top coat	2 x Sikagard®-205 W	Approx. 0.21 kg/m <sup>2</sup> , each coat
<b>System 4</b>		
Primer	1 x Sika® Bonding Primer	Approx. 0.10 kg/m <sup>2</sup>
Intermediate coat with Sika® Reemat Premium followed wet in wet by Sika® Reemat Lite	1 x Sikagard®-203 W 1 x Sika® Reemat Premium 1 x Sika® Reemat Lite 1 x Sikagard®-203 W	Approx. 1.40 kg/m <sup>2</sup> Approx. 0.225 kg/m <sup>2</sup> Approx. 0.03 kg/m <sup>2</sup> Approx. 0.70 kg/m <sup>2</sup>
Top coat	2 x Sikagard®-205 W	Approx. 0.21 kg/m <sup>2</sup> , each coat

**Note:**

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

### Substrate Quality

The substrate must be sound, clean, dry and free of all contaminants such as dirt, laitance, mould, oil, grease, coatings and surface treatments, etc.

Brickwork, blockwork, stonework:

Inspect the substrate. Spalling, flaking or damaged areas should be repaired using compatible materials to match surroundings or replace as necessary.

If in doubt apply a test area first.

### Substrate Preparation

All surfaces to be coated should be thoroughly cleaned by conventional means.

Exposed metal surfaces to be included in the coating schedule should be wire brushed or mechanically abraded to remove rust/ scale or oxidation. Return to a clean, bright metal wherever possible.

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.

## Application Conditions / Limitations

**Substrate Temperature** +8°C min. / +35°C max.

**Ambient Temperature** +8°C min. / +35°C max.

**Substrate Moisture Content** Visible damp free (maximum 18% wood moisture equivalent).  
< 6% pbw moisture content Test method: Sika®-Tramex meter,  
< 4% CM - measurement or Oven-dry-method.  
No rising moisture according to ASTM (Polyethylene sheet).

**Relative Air Humidity** 80% r.h. max.

**Dew Point** Beware of condensation!  
The substrate and uncured coating must be at least 3°C above dew point to reduce the risk of condensation or blooming on the wall finish.

## Application Instructions

**Application Method / Tools** Prior to application, confirm substrate moisture content, relative humidity and dew point.  
*Primer:*  
Sika® Bonding Primer can be applied by short-piled roller, brush or airless spray.  
Sikalastic® Metal Primer can be applied by short-piled roller, brush or airless spray.  
*Intermediate coat:*  
Sikagard®-203 W can be applied by short pile or sheepskin roller (for embedment coat only), brush or airless spray (tip size 0.38 to 0.53mm). Preferred application is by airless spray.  
*Top Coat:*  
Sikagard®-205 W can be applied by medium or long pile roller, brush or airless spray (tip size 0.28 to 0.48mm)

**Cleaning of Tools** Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically or with proprietary paint stripper).

**Waiting Time / Over coating** Before applying Sikagard®-205 W - on Sikagard®-203 W - allow:

Substrate temperature	Minimum	Maximum
+10°C	~24 hours	7 days
+20°C	~4 hours	7 days
+30°C	~4 hours	7 days

Before applying Sikagard®-205 W - on Sikagard®-205 W - allow:

Substrate temperature	Minimum	Maximum
+10°C	~4 hours	7 days
+20°C	~1 hours	7 days
+30°C	~1 hours	7 days

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

---

**Notes on Application / Limitations**

Application by roller may result in a slight surface texture when using standard coverage rates. If a smoother surface is required apply 3 thinner coats to produce the same overall DFT.

Ensure entire surface is fully dried before proceeding. Cracking may occur overcoating undried surfaces or when applying excessively thick material.

Always ensure good ventilation when using Sikagard<sup>®</sup>-205 W in a confined space, to ensure drying and full curing.

The gloss of the applied material is influenced by humidity, temperature and absorbency of the substrate.

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking (for further information please contact Technical Customer Services).

For spray application the use of protective health & safety equipment is mandatory!

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating 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.

---

**Curing Details****Applied Product ready for use**

Temperature	Tack free	Full cure
+10°C / 50% r.h.	~ 8 hours	~ 7 days
+20°C / 50% r.h.	~ 4 hours	~ 7 days
+30°C / 50% r.h.	~ 3 hours	~ 7 days

Note: Times are approximate and will be affected by changing ambient conditions.

---

**Value Base** 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.

**Health and Safety Information** For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

**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.

**EU Regulation 2004/42** According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type wb) is 140 / 140 g/l (Limits 2007 / 2010) for the ready to use product.

**VOC - Decopaint Directive**



Sika Limited  
 Watchmead  
 Welwyn Garden City  
 Hertfordshire  
 AL7 1BQ  
 United Kingdom  
 Phone +44 1707 394444  
 Telefax +44 1707 329129  
[www.sika.co.uk](http://www.sika.co.uk)  
 email: sales@uk.sika.com



Certificate No. EMS 4308



Certificate No. FM 12504