Sikagard®-207 W (Biosheen)

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

Product Description
Sikagard®-207 W is a single component, coloured, waterborne modified acrylic resin based surface coating containing an organic, in-film preservative.

Uses
- Coloured coating for internal walls and ceilings
- For concrete, cement based and gypsum substrates and previously painted surfaces
- Suitable for clean rooms in the pharmaceutical and medical industry. Also suitable for food and beverage industry, hospitals (acc. to HBN: 00-10 and HTM56), kitchens and prisons, educational and leisure facilities
- Overall basic hygiene protection for large areas
- General use in domestic situations

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
- Good water vapour permeability
- Seamless, easy clean mid-sheen finish
- Good covering and hiding power (opacity)
- Low odour

Tests

Fire Resistance
Exova GmbH, Classification report 2010-1177-K1-1
B s1 d0; acc. EN13501-1

Wet-scrub resistance
ILF Magdeburg, Test report: 1-034/10
Class 1; acc. EN 13300

Hiding power
ILF Magdeburg, Test report: 1-034/10
Class 1; acc. EN 13300
Product Data

Form

Appearance / Colour
Resin: Liquid, coloured
Standard colour shade: Light Grey (RAL 7035), Oyster White (RAL 1013), Cream (RAL 9001), Grey White (RAL 9002), White (RAL 9010), Magnolia (BS08B15), Dawn Grey (BS10A03), Ivory (BS10C31), Glacial Green (BS14C31), Crystal Blue (BS18E49)
Special colours may be made to order subject to minimum order quantities.
Note: All colours are approximate. For colour matching purposes, always ensure the product applied in each area is from the same control batch numbers.

Packaging
Sikagard®-207 W:
- 5.0 litres (~ 6.55kg) containers
- 15.0 litres (~ 19.65kg) containers

Storage

Storage Conditions/ Shelf-Life
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 freezing conditions and sources of heat.

Transport Conditions
Observe appropriate storage conditions during transportation. When necessary use insulated packaging to avoid extreme temperatures. Avoid exposure to freezing conditions and sources of heat.

Technical Data

Chemical Base
Waterborne modified acrylic resin

Density
Sikagard®-207 W: ~ 1.29 (DIN EN ISO 2811-1)

Solid Content
~ 38.2% (by volume) / ~ 52.2% (by weight)

Adhesion
To concrete:
> 1.5 N/mm² (failure in concrete)

Mechanical / Physical Properties

Tensile Elongation
Unreinforced: ~30% (BS EN ISO 527-3)

Chemical resistance
10% solutions of acids and alkalis including nitric acid and caustic soda failed to cause breakdown of the membrane

Hydrogen Peroxide
Resistant to a disinfection regime, based on H₂O₂ gas exposure up to 5 hours

System Information

System Structures

Basic Two Coat System 1:
For use in areas, with a low risk of impact and a limited/basic cleaning regime on an even, sound substrate with no surface imperfections.
Primer: 1 x Sika® Bonding Primer
Top coat: 2 x Sikagard®-207 W

Intermediate Three Coat System:
For use in areas with a low risk of impact, and a regular cleaning regime on an even, sound substrate with no surface imperfections.
Primer: 1 x Sika® Bonding Primer
Intermediate coat: 1 x Sikagard®-203 W
Top coat: 2 x Sikagard®-207 W
Note:
- For metal substrates apply Sika® Cor EG1 instead of Sika® Bonding Primer (please refer to the Sika® Cor EG1 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

<table>
<thead>
<tr>
<th>Coating System</th>
<th>Product</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basic Two Coat System</strong></td>
<td><strong>Primer</strong></td>
<td><strong>Approx. 0.2 L/m²</strong></td>
</tr>
<tr>
<td>1 x Sikagard®-207 W (10% diluted)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Top coat</strong></td>
<td><strong>2 x Sikagard®-207 W</strong></td>
<td><strong>Approx. 0.2 L/m² each coat</strong></td>
</tr>
<tr>
<td><strong>Intermediate Three Coat System</strong></td>
<td><strong>Primer</strong></td>
<td><strong>Approx. 0.08 to 0.10 L/m²</strong></td>
</tr>
<tr>
<td>1 x Sika® Bonding Primer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Intermediate coat</strong></td>
<td><strong>1 x Sikagard®-203 W</strong></td>
<td><strong>Approx. 0.28 L/m²</strong></td>
</tr>
<tr>
<td><strong>Top coat</strong></td>
<td><strong>2 x Sikagard®-207 W</strong></td>
<td><strong>Approx. 0.2 L/m² each coat</strong></td>
</tr>
</tbody>
</table>

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.

#### Wet Film Thickness

Approx. 200 microns per coat (at 0.2 L/m²)

#### Substrate Quality

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

If in doubt apply a test area first.

#### Substrate Preparation

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

For preparation methods for exposed metal surfaces to be included in the coating schedule please consult the Sika® Cor EG1 product datasheet.

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**: +5°C min. / +35°C max.
- **Ambient Temperature**: +5°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. For further information please refer to the Sika® Bonding Primer datasheet.

Sika® Cor EG1 can be applied by short-piled roller, brush or airless spray. The method of application has a major effect on achieving uniform thickness and appearance. Spray application will give the best results. For further information please refer to the Sika® Cor EG1 product datasheet.

**Intermediate coat:**
Sikagard®-203 W shall be applied by short pile or sheepskin roller (for embedment coat only), brush or airless spray. Preferred application is by airless spray.

**Top Coat:**
Sikagard®-207 W can be applied by medium or long pile roller, brush or airless spray (for further information please contact Technical Customer Services).

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 remover.

Waiting Time / Over coating

Before applying Sikagard®-207 W - on Sikagard®-203 W - allow:

<table>
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<tr>
<th>Substrate temperature</th>
<th>Minimum</th>
<th>Maximum</th>
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</thead>
<tbody>
<tr>
<td>+10°C</td>
<td>~24 hours</td>
<td>7 days.</td>
</tr>
<tr>
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<td>~4 hours</td>
<td>7 days</td>
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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.

Always ensure good ventilation when using Sikagard®-207 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 CO₂ and H₂O 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

<table>
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<th>Temperature</th>
<th>Tack free</th>
<th>Full cure</th>
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## 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 II A / J type wb) is 140 / 140 g/l (Limits 2007 / 2010) for the ready to use product.

### VOC - Decopaint Directive

The maximum content of Sikagard®-207 W is < 140 g/l VOC for the ready to use product.

### USGBC LEED rating

Sikagard®-207 W conforms to the requirements of LEED EQ Credit 4.2: Low – Emitting Materials: Paints & Coatings SCAQMD Method 304-91

VOC Content < 100g/l