Product Data Sheet Edition 16/01/2015 Identification no: 020807010010000001 Sikagard-203 W (Steridex)

## Sikagard<sup>®</sup>-203 W (Steridex)

Class 3; acc. EN 13300

Single component, waterborne modified acrylic resin surface coating with a dead matt finish

| Product<br>Description          | Sikagard <sup>®</sup> -203 W is a single component, coloured, waterborne modified acrylic resin based intermediate and surface coating containing an organic, in-film preservative.                                    |  |  |
|---------------------------------|--|--|--|
| Uses                            | Embedment, intermediate, and top coat for internal walls and ceilings  |  |  |
|                                 | <ul> <li>For concrete, bricks, cement based and gypsum substrates, metallic surfaces,<br/>timber, tiles and plastic</li> </ul>   |  |  |
|                                 | Suitable for pharmaceutical, medical engineering, food and beverage industry,<br>hospitals, healthcare facilities (acc. to HBN: 00-10 and HTM 56), kitchens,<br>educational facilities, prisons and leisure facilities |  |  |
|                                 | <ul> <li>Maintenance layer on existing Sikagard hygienic coatings</li> </ul>   |  |  |
| Characteristics /<br>Advantages | <ul> <li>Good resistance to repeated cleaning regimes using mild detergents and<br/>cleaning solutions</li> </ul>  |  |  |
|                                 | Tough and highly durable   |  |  |
|                                 | <ul> <li>Good covering and hiding power (opacity)</li> </ul>   |  |  |
|                                 | Good water vapour permeability   |  |  |
|                                 | Elastomeric, resists cracking and flaking  |  |  |
|                                 | Matt finish  |  |  |
|                                 | Seamless, easy to clean finish   |  |  |
|                                 | Low odour  |  |  |
| Tests                           |  |  |  |
| Approval /<br>Standards         |  |  |  |
| Water Vapour<br>Diffusion       | 4.8 g/m²/day at 520 μm; acc. BS 3177 (temperate)   |  |  |
| Fire Resistance                 | Exova GmbH, Classification report 2010-1168-K1-1<br>B s2 d0; acc. EN13501-1  |  |  |
| Wet-scrub resistance            | ILF Magdeburg, Test report: 1-034/10<br>Class 1; acc. EN 13300   |  |  |
| Hiding power                    | ILF Magdeburg, Test report: 1-034/10   |  |  |



| Product Data                        |  |  |  |
|-------------------------------------|--|--|--|
| Form                                |  |  |  |
| Appearance / Colour                 | Resin: Medium Viscosity Liquid, coloured, matt<br>Standard colour shade: Light Grey (RAL 7035), Oyster White (RAL 1013), Cream<br>(RAL 9001), Grey White (RAL 9002), White (RAL 9010), Magnolia (BS08B15),<br>Dawn Grey (BS10A03), Ivory (BS10C31), Glacial Green (BS14C31), Crystal Blue<br>(BS18E49) |  |  |
|                                     | Note: All colours are approx   | made to order subject to minimi<br>kimate. For colour matching purpos<br>the same control batch numbers.   | -  |
| Packaging                           | Sikagard <sup>®</sup> -203 W:  | 5.0 litres (= 6.75kg) drums<br>15.0 litres (= 20.55kg) cor   |  |
| Storage                             |  |  |  |
| Storage Conditions/<br>Shelf-Life   | undamaged sealed pack  | production if stored properly in o<br>aging, in dry conditions at temp<br>o freezing conditions and source | peratures between +5°C and                 |
| 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 acrylic copo  | lymer dispersion   |  |
| Density                             | ~ 1.35 kg/l  |  | (DIN EN ISO 2811-1)                        |
| Solid Content                       | ~ 46.7 % (by volume) / ~   | 61.4% (by weight)  |  |
| Adhesion                            | <i>To concrete:</i> > 1.5 N/mm <sup>2</sup> (failure in c  | oncrete)   |  |
| Gloss                               | < 5 gloss units @ 60°  | (Classified as "dead   | matt" to BS EN 13300:2001)                 |
| Surface Granularity                 | < 0.01mm   | (Classified as   | "fine" to BS EN 13300:2001)                |
| Resistance to QUV                   | No appreciable change other than a minor reduction in gloss. (ASTM G154-04: 2500 hours QUV-B)  |  |  |
| Mechanical / Physical<br>Properties |  |  |  |
| Tensile Elongation                  | Unreinforced:  | approx. 90%  | (BS EN ISO 527-3)                          |
| Tensile Strength                    | Unreinforced:  | 4.5 N/mm <sup>2</sup>  | (BS EN ISO 527-3)                          |
| Hardness (Persoz)                   | 10   |  |  |
| Resistance                          |  |  |  |
| Chemical resistance                 | 10% solutions of acids a cause breakdown of the  | nd alkalis including nitric acid a membrane.   | nd caustic soda failed to                  |
| Impact                              | No cracking or de-lamina   | ation  |  |
| Hydrogen Peroxide                   | Not resistant to a disinfe   | ction regime, based on direct H  | l <sub>2</sub> O <sub>2</sub> gas exposure |
|                                     |  |  |  |



| System<br>Information |   |  |
|-----------------------|---|--|
| System Structures     | Basic Two Coat S  | System:  |
|                       | For use in areas, with a low risk of impact and a limited/basic cleaning regime on even, sound substrate with no surface imperfections. |  |
|                       | Primer:<br>Top coat:  | 1 x Sika <sup>®</sup> Bonding Primer<br>2 x Sikagard <sup>®</sup> -203 W   |
|                       | Intermediate Thre   | ee Coast System:   |
|                       |   | ith a low risk of impact, and a regular cleaning regime on an rate with no surface imperfections.  |
|                       | Primer:   | 1 x Sika <sup>®</sup> Bonding Primer   |
|                       | Intermediate<br>coat:   | 1 x Sikagard <sup>®</sup> -203 W   |
|                       | Top coat:   | 1 x Sikagard <sup>®</sup> -203 W<br>2 x Sikagard <sup>®</sup> -203 W or 2 x Sikagard <sup>®</sup> -205 W<br>or 2 x Sikagard <sup>®</sup> -206 W or 2 x Sikagard <sup>®</sup> -307 W  |
|                       | Advanced Reinfo   | rced System:   |
|                       | For use in areas w  | ith a high risk of impact and a frequent cleaning regime.  |
|                       | Can also be used to reduce the surface profile / imperfections.   |  |
|                       | Primer:<br>Intermediate coat:   | 1 x Sika <sup>®</sup> Bonding Primer<br>1 x Sikagard <sup>®</sup> -203 W<br>embedment coat with either Sika <sup>®</sup> Reemat Lite or Premium<br>(depending upon specification)<br>1 x Sikagard <sup>®</sup> -203 W  |
|                       | Top coat:   | 1 x Sikagard <sup>®</sup> -203 W<br>2 x Sikagard <sup>®</sup> -203 W or 2 x Sikagard <sup>®</sup> -205 W<br>or 2 x Sikagard <sup>®</sup> -206 W or 2 x Sikagard <sup>®</sup> -307 W  |
|                       | Double Reinforce  | ed System:   |
|                       | Advanced system impact resistance   | for higher demand areas where enhanced integral strength and may be required.  |
|                       | Primer:<br>Intermediate coat:   | 1 x Sika <sup>®</sup> Bonding Primer<br>1 x Sikagard <sup>®</sup> -203 W<br>embedment coat, with Sika <sup>®</sup> Reemat Premium followed wet in<br>wet by Sika <sup>®</sup> Reemat Lite<br>1 x Sikagard <sup>®</sup> -203 W  |
|                       | Top coat:   | 2 x Sikagard <sup>®</sup> -203 W or 2 x Sikagard <sup>®</sup> -205 W<br>or 2 x Sikagard <sup>®</sup> -206 W or 2 x Sikagard <sup>®</sup> -307 W  |
|                       | the Sika <sup>®</sup> Cor EG<br>- Timber must be k  | tes apply Sika <sup>®</sup> Cor EG1 instead of Sika <sup>®</sup> Bonding Primer (please refer to 1 product datasheet for further information).<br>not stopped, stable, free from shakes and non-checking. Sand if pply Bonding Primer.   |
|                       | Primer:<br>Intermediate coat:<br>Top coat:<br>Note:<br>- For metal substra<br>the Sika <sup>®</sup> Cor EG<br>- Timber must be k        | 1 x Sika <sup>®</sup> Bonding Primer<br>1 x Sikagard <sup>®</sup> -203 W<br>embedment coat , with Sika <sup>®</sup> Reemat Premium followed wet<br>wet by Sika <sup>®</sup> Reemat Lite<br>1 x Sikagard <sup>®</sup> -203 W<br>2 x Sikagard <sup>®</sup> -203 W or 2 x Sikagard <sup>®</sup> -205 W<br>or 2 x Sikagard <sup>®</sup> -206 W or 2 x Sikagard <sup>®</sup> -307 W<br>tes apply Sika <sup>®</sup> Cor EG1 instead of Sika <sup>®</sup> Bonding Primer (please refe<br>1 product datasheet for further information).<br>not stopped, stable, free from shakes and non-checking. Sand if |



## Consump

| Consumption / Dosage  |  |   |  |
|-----------------------|--|---|--|
|                       | Coating System   | Product   | Consumption  |
|                       | Basic Two Coat System  | l   |  |
|                       | Primer   | 1 x Sika <sup>®</sup> Bonding Primer  | Approx. 0.08 to 0.10 L/m <sup>2</sup>  |
|                       | Top coat   | 2 x Sikagard <sup>®</sup> -203 W  | Approx. 0.28 L/m <sup>2</sup> each coa   |
|                       | Intermediate Three Coa   | t System  |  |
|                       | Primer   | 1 x Sika <sup>®</sup> Bonding Primer  | Approx. 0.08 to 0.10 L/m <sup>2</sup>  |
|                       | Intermediate coat  | 1 x Sikagard <sup>®</sup> -203 W  | Approx. 0.28 L/m <sup>2</sup>  |
|                       | Top coat   | 2 x Sikagard <sup>®</sup> -205 W or<br>2 x Sikagard <sup>®</sup> -206 W or<br>2 x Sikagard <sup>®</sup> -307 W  | Depending on the product<br>used, see individual product<br>datasheets   |
|                       | Advanced Reinforced S  | ystem   |  |
|                       | Primer   | 1 x Sika <sup>®</sup> Bonding Primer  | Approx. 0.08 to 0.10 L/m <sup>2</sup>  |
|                       | Option 1   |   |  |
|                       | Intermediate coat with<br>Sika <sup>®</sup> Reemat Lite  | 1 x Sikagard <sup>®</sup> -203 W<br>1 x Sika <sup>®</sup> Reemat Lite<br>1 x Sikagard <sup>®</sup> -203 W   | Approx. 0.25 L/m <sup>2</sup><br>Approx. 0.03 kg/m <sup>2</sup><br>Approx. 0.25 L/m <sup>2</sup>                                 |
|                       | <b>Option 2</b><br>Intermediate coat with  | 1 x Sikagard <sup>®</sup> -203 W<br>1 x Sika <sup>®</sup> Reemat Premium  | Approx. 1.0L/m <sup>2</sup>  |
|                       | Sika <sup>®</sup> Reemat Premium   | 1 x Sika <sup>®</sup> Reemat Premium<br>1 x Sikagard <sup>®</sup> -203 W  | Approx. 0.225 kg/m <sup>2</sup><br>Approx. 0.28L/m <sup>2</sup>  |
|                       | Top coat   | 2 x Sikagard <sup>®</sup> -205 W or<br>2 x Sikagard <sup>®</sup> -206 W or<br>2 x Sikagard <sup>®</sup> -307 W  | Depending on the product<br>used; see individual product<br>datasheets   |
|                       | Double Reinforced Syst   | tem   |  |
|                       | Primer   | 1 x Sika <sup>®</sup> Bonding Primer  | Approx. 0.08 to 0.10 L/m <sup>2</sup>  |
|                       | Intermediate coat with<br>Sika <sup>®</sup> Reemat Premium<br>followed wet in wet by<br>Sika <sup>®</sup> Reemat Lite  | 1 x Sikagard <sup>®</sup> -203 W<br>1 x Sika <sup>®</sup> Reemat Premium<br>1 x Sika <sup>®</sup> Reemat Lite<br>1 x Sikagard <sup>®</sup> -203 W                                       | Approx. 1.0L/m <sup>2</sup><br>Approx. 0.225 kg/m <sup>2</sup><br>Approx. 0.03 kg/m <sup>2</sup><br>Approx. 0.28L/m <sup>2</sup> |
|                       | Top coat   | 2 x Sikagard <sup>®</sup> -205 W or<br>2 x Sikagard <sup>®</sup> -206 W or<br>2 x Sikagard <sup>®</sup> -307 W  | Depending on the product<br>used; see individual product<br>datasheets   |
| Wet Film Thickness    | surface porosity, surface<br>For metal substrates appl<br>the Sika <sup>®</sup> Cor EG1 produ  | ical and do not allow for any additio<br>profile, variations in level and wasta<br>ly Sika <sup>®</sup> Cor EG1 instead of Sika <sup>®</sup> B<br>ct datasheet for further information) | age etc.<br>Sonding Primer (please refer   |
| wet Film Thickness    | Approx. 275 microns p  | er coat (at 0.28 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.   |   |  |
|                       | Brickwork, block work, stonework:<br>Inspect the substrate. Spalling, flaking and damaged areas should be repaired<br>using compatible materials to match surroundings or replace as necessary.  |   |  |
|                       | If in doubt apply a test   | area first.   |  |
| Substrate Properties  | All ourfoods to be acct  | ad should be therewably classes   | d by conventional mass   |
| Substrate Preparation | All surfaces to be coated should be thoroughly cleaned by conventional means.<br>For preparation methods for exposed metal surfaces to be included in the coating schedule please consult the Sika <sup>®</sup> Cor EG1 product datasheet. |   |  |
|                       |  | rre free from visible dampness a<br>pletely removed from all surface<br>brush and/or vacuum.  |  |
| Ca ®                  |  |   |  |
|                       |  |   | Sikagard <sup>®</sup> -203 W   |

| Application<br>Conditions /<br>Limitations |   |  |                               |
|--|---|--|-------------------------------|
| Substrate<br>Temperature                   | +8°C min. / +35°C max.  |  |                               |
| Ambient Temperature                        | +8°C min. / +35°C max   |  |                               |
| Substrate Moisture<br>Content              | Visible damp free (maximum 18% wood moisture equivalent).   |  |                               |
|  | < 6% pbw moisture content To < 4% CM - measurement or C   |  | meter,                        |
|  | No rising moisture according t  | o ASTM (Polyethylene she                                 | eet).                         |
| Relative Air Humidity                      | 80% max.  |  |                               |
| Dew Point                                  | Beware of condensation!   |  |                               |
|  | The substrate and uncured co<br>reduce the risk of condensation   | ating must be at least 3°C<br>on or blooming on the wall | above dew point to<br>finish. |
| Application<br>Instructions                |   |  |                               |
| Application Method /<br>Tools              | Prior to application, confirm su point.   | ubstrate moisture content,                               | relative humidity and dew     |
|  | <ul> <li><i>Pimer:</i></li> <li>Sika<sup>®</sup> Bonding Primer can be applied by short-piled roller, brush or airless spray.</li> <li>For preparation methods for exposed metal surfaces to be included in the coating schedule please consult the Sika<sup>®</sup> Cor EG1 product datasheet.</li> <li><i>Intermediate coat:</i></li> <li>1 x Sikagard<sup>®</sup>-203 W can be applied by short pile or sheepskin roller (for embedment coat only), brush or airless spray. Preferred application is by airless spray (tip size 0.38 to 0.53mm).</li> <li><i>Top Coat:</i></li> <li>Sikagard<sup>®</sup>-203 W should be applied by conventional airless spray (tip size 0.38 to 0.53mm).</li> <li><i>Top Coat:</i></li> <li>Sikagard<sup>®</sup>-203 W should be applied by conventional airless spray (tip size 0.38 to 0.53mm) to achieve a smooth surface. Application by brush and roller is possible, the surface of the coating might be lightly textured (for further information please contact Technical Customer Services).</li> <li>Sikagard<sup>®</sup>-205 W, Sikagard<sup>®</sup>-206 W, Sikagard 207 W and Sikagard<sup>®</sup>-307 W see individual PDS.</li> </ul> |  |                               |
| Cleaning of Tools                          | Clean all tools and application equipment with water immediately after use.<br>Hardened and/or cured material can only be removed mechanically or with<br>proprietary paint remover.  |  |                               |
| Over coating times                         | Before applying Sikagard <sup>®</sup> - Hygienic top coats - on Sikagard <sup>®</sup> -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                        |
|  | Times are approximate and will temperature and relative humidit   |  | ent conditions particularly   |



| Notes on Application /<br>Limitations | Minimum two coats, depen   | dent on requirements.  |  |  |
|---------------------------------------|--|--|--|--|
|                                       | Ensure entire surface is fully dried before proceeding. Crazing may occur over<br>coating un-dried surfaces or when applying excessively thick material.   |  |  |  |
|                                       | Always ensure good ventila to ensure drying and full cu  | ation when using Sikagard <sup>®</sup> -<br>iring.   | 203W in a confined space   |  |
|                                       | The gloss of the applied ma<br>absorbency of the substrate   | aterial is influenced by humic   | dity, temperature and  |  |
|                                       | 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, thes produce large quantities of both $CO_2$ and $H_2O$ water vapour, which may adversel 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                        | · · · · · · · · · · · · · · · · · · ·  |  | ſ  |  |
| Applied Product                       | Temperature  | Tack free  | Full cure  |  |
| ready for use                         | +10°C / 50% r.h.   | ~ 8 hours  | ~ 7 days   |  |
|                                       | +20°C / 50% r.h.   | ~ 4 hour   | ~ 7 days   |  |
|                                       | +30°C / 50% r.h.   | ~ 3 hour   | ~ 7 days   |  |
|                                       | Note: Times are approximate and will be affected by changing ambient conditions.   |  |  |  |
| Value Base                            |  | this Product Data Sheet are<br>y vary due to circumstances   |  |  |
| Local<br>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<br>Information      | products, users shall refer  | e on the safe handling, stora<br>to the most recent Material<br>gical, toxicological and other   | Safety Data Sheet  |  |
| Legal Notes                           | application and end-use o<br>current knowledge and ex<br>and applied under normal<br>In practice, the differences<br>such that no warranty in re<br>purpose, nor any liability a<br>inferred either from this inf<br>from any other advice offe<br>suitability for the intended<br>change the properties of it<br>be observed. All orders ar<br>delivery. Users must alway | articular, the recommendation<br>f Sika products, are given in<br>perience of the products who<br>conditions in accordance with<br>s in materials, substrates and<br>espect of merchantability or of<br>rising out of any legal relation<br>formation, or from any written<br>red. The user of the product<br>application and purpose. Sill<br>s products. The proprietary<br>e accepted subject to our cu<br>ys refer to the most recent is<br>t concerned, copies of which | good faith based on Sika<br>en properly stored, handle<br>th Sika's recommendation<br>d actual site conditions are<br>of fitness for a particular<br>onship whatsoever, can be<br>n recommendations, or<br>must test the product's<br>ka reserves the right to<br>rights of third parties must<br>rrent terms of sale and<br>usue of the local Product |  |



| EU Regulation 2004/42<br>VOC - Decopaint<br>Directive | According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / <b>j</b> type <b>wb</b> ) is 140 / 140 g/l (Limits 2007 / 2010) for the ready to use product. |
|---|---|
|   | The maximum content of <b>Sikagard<sup>®</sup>-203 W</b> is < 140 g/I VOC for the ready to use product.   |
| USGBC<br>LEED rating                                  | Sikagard <sup>®</sup> -203 W conforms to the requirements of LEED<br>EQ Credit 4.2: Low –Emitting Materials: Paints & Coatings<br>SCAQMD Method 304-91<br>VOC Content < 100g/I                  |





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