

SYSTEM DATA SHEET

Sikagard® Wallcoat WS-13

SMOOTH , WATER BORNE, WALL-COATING FOR TUNNEL

DESCRIPTION

Sikagard® Wallcoat WS-13 is a water based, coloured and easy to clean coating with very low VOC / AMC emission.

USES

Sikagard® Wallcoat WS-13 may only be used by experienced professionals.

- walls and ceilings in trafficked tunnels

CHARACTERISTICS / ADVANTAGES

- Easy to clean
- Easy to apply, also by airless spray
- Low odour
- Low VOC/ AMC emissions

ENVIRONMENTAL INFORMATION

Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

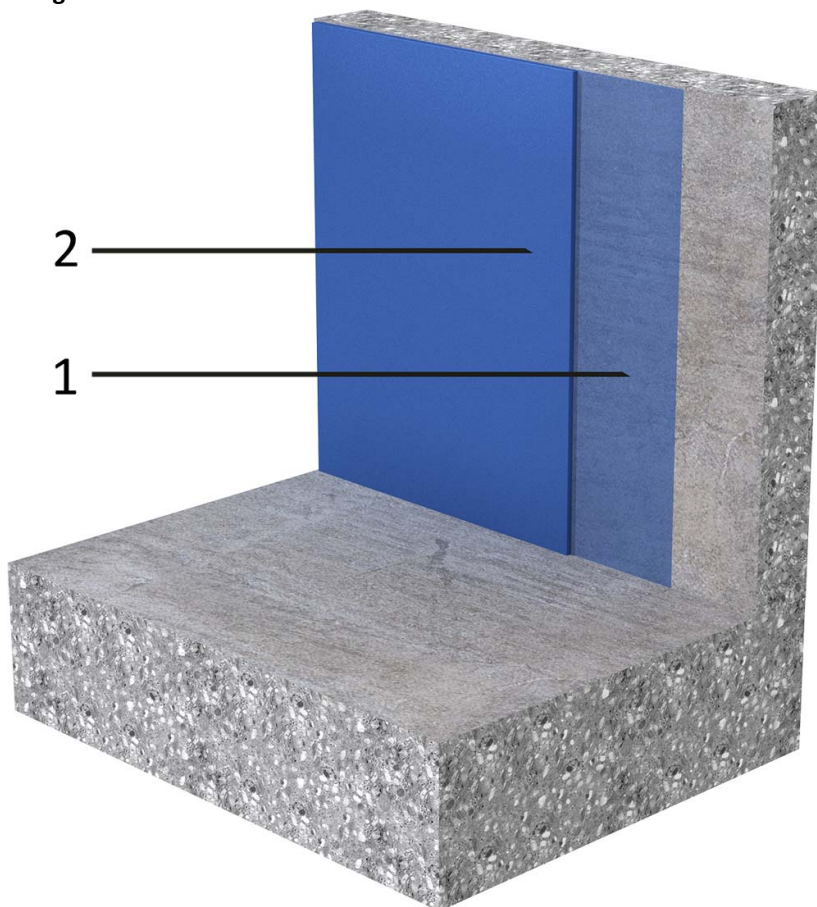
APPROVALS / STANDARDS

- Wet scrub resistance acc. EN ISO 11998, ILF Magdeburg, test report 160770-2
- Reaction to fire, classification acc. EN 13501-1, Prüfinstitut Hoch, classification report KB-Hoch-091125
- Reaction to fire, classification acc. DIN 4102, MPA Dresden, test report 2008-B-1002
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance and CE-marking

SYSTEM INFORMATION

System Structure

Sikagard® Wallcoat WS-13



| Layer | Product |
|-------------|----------------------------------|
| 1. Primer | Sikagard® Wallcoat T + 5 % water |
| 2. Top Coat | Sikagard® Wallcoat T |

| | |
|--------------------------|---|
| Composition | 2-component epoxy, waterborne |
| Appearance | smooth, mid-sheen surface |
| Colour | Standard colour shades are RAL 7032, RAL 7035, RAL 9003 and RAL 9010 other on request |
| Nominal Thickness | ~0.2–0.3mm |

TECHNICAL INFORMATION

| | | |
|-------------------------------------|-------------------------|----------------------------|
| Tensile Adhesion Strength | ≥ 1.0 N/mm ² | (EN 1542) |
| Reaction to Fire | b-S1, d0 B1 | (EN 13501-1) (DIN 4102) |
| Chemical Resistance | Class 1 | (EN 13529) |
| Permeability to Water Vapour | Class 1, Sd < 5 m | (EN ISO 7783-1/ -2) |

APPLICATION INFORMATION

| Consumption | Layer | Product | Consumption |
|-------------|-------------|----------------------------------|------------------------|
| | 1. Primer | Sikagard® Wallcoat T + 5 % water | ~0.20kg/m ² |
| | 2. Top Coat | Sikagard® Wallcoat T | ~0.22kg/m ² |

| | |
|-----------------------------------|--|
| Product Temperature | +10 °C min./ +40 °C max. |
| Ambient Air Temperature | +8 °C min./ +40 °C max. |
| Relative Air Humidity | ≤ 75 % When relative air humidity is > 75 % the overcoating time may extend up to 24 h and more |
| Dew Point | Beware of condensation The substrate temperature and uncured material must be at least +3 °C above dew point to reduce risk of condensation or blooming on the finish |
| Substrate Temperature | +8 °C min./ +35 °C max. |
| Substrate Moisture Content | Concrete: ≤ 6 % when measured by Tramex meter Concrete: ≤ 4 % when measured with CM-method or oven-dry method No rising moisture according ASTM (polyethylene sheet) |
| Waiting Time / Overcoating | see product data sheets |

PRODUCT INFORMATION

| | |
|---------------------------|------------------------|
| Packaging | see product data sheet |
| Shelf Life | see product data sheet |
| Storage Conditions | see product data sheet |

MAINTENANCE

In case the surface of the coating system has picked up too much dirt and can't be cleaned properly it shall be maintained. Same will be necessary when the top coat has been contaminated by liquids penetrating into the surface. The maintenance of the system can easily be done by slightly grinding the surface and recoating with one or two layers of the relevant top coat.

CLEANING

The top coat of the system is tested in according to EN 11998:2006, wet scrub resistance. According to EN 13300 the product is classified in class 1. The surface can be cleaned with a wet sponge, using mild detergents, and washed with clean water.

LIMITATIONS

- Do not apply on substrates with rising moisture.
- Freshly applied Sikagard® Wallcoat WS-13 shall be protected from damp, condensation and water for at least 24 h.
- Always ensure adequate fresh air ventilation during application and curing.
- The appearance of the finish (gloss) may vary with changes in temperature and relative humidity during application.
- With light colours (i.e. yellow, orange and red) the application of multiple layers may be necessary to ensure good opacity.
- Exposed to direct UV radiation discolouration and deviation of colour may occur. The technical properties of the system are not influenced.
- Areas exposed to UV radiation can be protected by overcoating with Sikafloor®-357.
- The incorrect assessment and treatment of cracks may lead to a reduced service life time and reflective cracking.

- If exact colour matching is required ensure that in each area material from the same control batch number is used.
- If heating is required don't use gas, oil, paraffin or other fossil fuel heaters. Due to the production of CO₂ and H₂O vapours the finish may be affected. For heating only use electrical powered heaters.

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.

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.

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.

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, sub-

strates 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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Environment
ISO 14001



Quality
ISO 9001

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