

Sikagard® -Wallcoat

2-part water dispersed, epoxy seal coat

Product Description Sikagard® -WallCoat® is a high-performance, coloured, water dispersed, two-component epoxy coating which cures to form a semi mat and easy to clean finish. Sika WallCoat® -EG combines the economy of water emulsifiable coatings and the durability of epoxy based coatings.

Uses

- As an attractive easy to clean protective coating for walls in which can be applied on concrete, rendering, stone, asbestos, steel, iron, wood..., etc.
- It is used in basements, workshops, hospital, food and pharmaceutical factories.
- As a pollution concentrations protection for tunnel walls and galleries.
- It is used in clean rooms for the electronics industry.
- Suitable for production facilities, storage, car park and logistic areas etc.

Advantages

- Easy to clean and use pre weighed packing.
- Economic and environmentally friendly.
- Hygienic and can be cleaned by commonly used cleaners and detergent.
- Durable and good bond on damp surfaces.
- Water vapour permeable.
- Spray application is possible.

Product Data

Colour Produced in several colours.
Under direct sun light there may be some discolouration and colour variation, this has no influence on the function and performance of the coating.

Packaging Two pack (A+B), 6 kg & 18 kg pails.

Storage 12 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from frost.

Technical Data

Chemical Based Epoxy, water dispersed.

Density 1.45 kg/l Approx.

Solid content 67% ± 1 (by volume)

Flash point > 200°C

Approval / Standard Sikagard®-Wallcoat conforms to the requirements of LEED EQ Credit 4.2: Low -Emitting Materials: Paints & Coatings SCAQMD Method M 24; similar to ASTM D 2369
VOC Content < 100g/l

Mechanical/ Physical Properties

Abrasion resistance 94 mg (CS 10/1000/1000) (14 days / +23°C) (ASTM D 4060, Taber Abraser Test).

Chemical resistance Resistant to water, juice, petrol, oil, fuel, sodium chloride and some other alkalis.

Thermal Resistance

Exposure*	Dry heat
Permanent	+50°C
Short-term max. 7 d	+80°C
Short-term max. 12 h	+100°C



System Information

System Structure

Primer:

On gypsum plaster boards*: 1 x Sikafloor®-156 + 20 wt.-% Thinner C

On mortars: 1 x Sikafloor®-156 + 20 wt.-% Thinner C
or 1 x Sikagard®-Wallcoat + 5 wt.-% water

On concrete: 1 x Sikafloor®-156 + 20 wt.-% Thinner C
or 1 x Sikagard®-Wallcoat + 5 wt.-% water

Top coat: 2 - 3 x Sikagard®-Wallcoat (roller application)
or 1 - 2 x Sikagard®-Wallcoat (spray application)

For the application onto gypsum plaster boards, please refer to 'Notes on Application / Limitations' of Sikagard®-Wallcoat

Application

Consumption

Coating system

Primer	Sikafloor®-156+ 20 wt.-% Thinner C	~ 0.08 kg/m ²
	or Sikagard®-Wallcoat + 5 wt.-% water	~ 0.15 – 0.20 kg/m ²
Top Coat	2 - 3 x Sikagard®-Wallcoat (roller application)	~ 0.15 – 0.25 kg/m ²
	or 1 - 2 x Sikagard®-Wallcoat (spray application)	~ 0.15 – 0.28 kg/m ² per coat

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 concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

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

If in doubt apply a test area first.

Surface preparation

Concrete substrates must be prepared mechanically using grinding equipment or high pressure water jetting to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.

Repairs to the substrate, filling of blowholes/ voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur®, Sika Rep® and Sikagard® range of materials.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

Application Conditions / Limitations

Substrate Temperature +10°C min. / +30°C max.

Ambient Temperature +10°C min. / +30°C max.

Substrate Moisture Content < 6% pbw moisture content.

Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.
No rising moisture according to ASTM (Polyethylene sheet).

Relative Air Humidity 75% r.h. max.

Dew Point	<p>Beware of condensation!</p> <p>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.</p> <p>Note: Low temperatures and high humidity conditions increase the probability of blooming.</p>
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Application Instructions

Mixing	<p>Prior to mixing stir the contents of the resin pack (A) to dispense settled components. Then add the hardener pack (B) and mix thoroughly until a uniform consistency is obtained. It is recommended to use electric stirrer (approx. 300 – 400 rpm).</p>
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Application method	<p>Prior to application, confirm substrate moisture content, relative humidity and dew point.</p> <p>If > 6% pbw moisture content, Sikagard®-720 EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.</p> <p>Top coat: Sikagard®-Wallcoat can be applied by short-piled roller, brush or airless spray.</p>
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Cleaning	Tools and equipment should be cleaned with special solvent immediately after use.
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Pot life

Temperatures	Time
+10°C	~ 150 min
+20°C	~ 90 min
+30°C	~ 60 min

Waiting Time / Overcoating

Before applying Sikagard®-Wallcoat - on Sikagard®-Wallcoat - allow:

Temperatures	Minimum	Maximum
+10°C	180 min	7 days
+20°C	180 min	7 days
+30°C	150 min	7 days

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

Notes on Application / Limitations

Minimum two coats, dependent on requirements.

With relative air humidity of $\geq 75\%$ the Waiting Time / Overcoating is increased by 24 hours.

Do not apply Sikagard®-Wallcoat N on gypsum plaster boards, if in use for wet areas, such as shower rooms etc.

Always ensure good ventilation when using Sikagard®-Wallcoat N in a confined space, to ensure drying and full curing.

Freshly applied Sikagard®-Wallcoat N should be protected from rain, condensation and water for at least 24 hours.

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 exact colour matching, ensure the Sikagard®-Wallcoat N in each area is applied from the same control batch numbers.

For spray application the use of protective health & safety equipment is mandatory! Under certain conditions, under floor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin. 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.

Curing Details

Applied Product ready for use

Temperature	Tack free	Light exposure	Full cure
+10°C	~ 20 hours	~ 5 days	~ 10 days
+20°C	~ 6 hours	~ 3 days	~ 7 days
+30°C	~ 3 hours	~ 2 days	~ 5 days

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

Health and safety

- Use goggles, gloves and breathing mask when applying.
- Skin splashes to be removed with hand cleaner, soap and water.
- Eye splashes to be washed with plenty of water.
- If ingested seek medical advice.
- Product in liquid or uncured state may contaminate groundwater and should be prevented from entering drains or water courses.

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.



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