Construction

Sikagard®-Wallcoat Primer

2-Part Water Based Epoxy Primer

Product Description	**Sikagard®-Wallcoat Primer** is a two part, water dispersed, solvent free, coloured, epoxy resin based primer.
Uses	■ Primer for Sikagard®-Wallcoat ■ For concrete and cementitious substrates
Characteristics / Advantages	■ Water vapour permeable ■ Solvent free ■ Water dilutable ■ Odourless ■ Easy application

Product Data

Form			
Appearance / Colours	Resin - part A: Hardener-part B: ~ RAL 9010, other colour shades are available on request.	coloured, liquid transparent, liquid	
Packaging	Part A: Part B: Part A+B:	4.2 kg and 12.6 kg containers 1.8 kg and 5.4 kg containers 6.0 kg and 18 kg ready to mix units (6 kg as unipacks)	

Storage

Storage Conditions / Shelf-Life	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 Base	Epoxy, waterborne		
Density (@ 23°C)	Part A: Part B: Mixed Resin:	1.28 kg/lt 1.09 kg/lt 1.22 kg/lt	(DIN EN ISO 2811-1)
Solid Content	~ 43% (by volume) / ~ 55% (by weight)		

System Information

System Structure

Concrete and cementitious substrates:
Primer: 1 x **Sikagard®-Wallcoat Primer** + 5 wt.-% water.
Coating 2 - 3 x Sikagard®-Wallcoat (roller application)
or 1 - 2 x Sikagard®-Wallcoat (spray application)

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Priming	**Sikagard®-Wallcoat Primer** + 5 wt.-% water	~ 0.120 kg/m²
Coating	2 - 3 x Sikagard®-Wallcoat (roller application) 1 - 2 x Sikagard®-Wallcoat (spray application)	0.10 - 0.15 kg/m² per coat 0.15 - 0.25 kg/m² per coat

These figures are theoretical and do not allow for any additional material 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.

Substrate Preparation

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface.
Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
Repairs to substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor®, SikaDur® and SikaGard® range of materials.
The concrete or screed substrate has to be primed or levelled up in order to achieve an even surface.
High spots must be removed by grinding.
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 Humidity

≤ 6% pbw moisture content.
Test method: Sika-Tramex meter or CM-measurement.
No rising moisture according to ASTM (Polyethylene-sheet).

Relative Air Humidity

75% r.h. max., adequate fresh air ventilation must be provided to remove excess moisture during curing!

Dew Point

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

Application Instructions

Mixing

Part A : part B = 70 : 30 (by weight)

Mixing Time

Prior to mixing stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.
To ensure thorough mixing pour materials into another container and mix again to achieve a uniform mix.
Over mixing must be avoided to minimize air entrapment.

Mixing Tools

Sikagard®-Wallcoat Primer must be mechanically mixed using an electric power stirrer (300 - 400 rpm) or other suitable equipment.

Application Method / Tools

Prior to application, confirm substrate moisture content, r.h. and dew point.
If > 6% pbw moisture content, Sikagard®-720 EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.
Primer:
Make sure that a continuous, pore free coat covers the substrate.
Sikagard®-Wallcoat Primer is applied evenly by a short pile roller or by brush.

Cleaning of Tools

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

Potlife

Temperature	Time
+10°C	~ 150 minutes
+20°C	~ 120 minutes
+30°C	~ 60 minutes

Waiting Time / Overcoatability

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

Substrate temperature	Minimum	Maximum
+10°C	48 hours	7 days
+20°C	15 hours	5 days
+30°C	10 hours	3 days

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
When relative air humidity ≥ 75% the waiting time is increased by at least 24 hours.

Notes on Application / Limitations

Suitable for use in Hot and tropical climates

Do not apply **Sikagard®-Wallcoat Primer** on substrates in which significant vapour pressure may occur.

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

Avoid puddles on the surface with the primer.

Always ensure adequate fresh air ventilation when using **Sikagard®-Wallcoat Primer** in confined spaces to remove excess moisture during curing.

Tools
Recommended supplier of tools:
PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com.

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

Construction

Curing Details

Applied Product ready for use

Temperature	Touch dry	Full cure
+10°C	~ 48 hours	~ 10 days
+20°C	~ 15 hours	~ 7 days
+30°C	~ 10 hours	~ 5 days

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

Notes

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 should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

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