Product Data Sheet
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Sikagard®-62

Construction

Sikagard®-62

2-Part Epoxy Protective coating

Product Description

Sikagard®-62 is a 2-pack solvent-free high build coating material based on epoxy resin.

Uses

- As an abrasion-resistant universal coating material designed for normal to moderately aggressive chemical environments. Sikagard®-62 is suitable for use on concrete, stone, cementitious mortars and renderings (including polymer-modified), epoxy cements (EpoCem), epoxy mortars, iron and steel.
- For linings to storage tanks and silos, bund areas. As anti-corrosion coating in food-processing plants, sewage works, farms and agricultural enterprises, chemical and pharmaceutical plants, beverage industries and bottling plants.
- Also used as part of glass fibre-reinforcement self-supporting linings with crack-bridging properties on bund areas and storage tanks.

Characteristics / Advantages

- Solvent-free
- Good chemical and mechanical resistance
- Easy to mix and work
- High-build
- Impervious to liquids

Product Data

Form

Appearance / Colours

Resin - Part A: Coloured, liquid
Hardener - Part B: Transparent, liquid

Pebble grey (RAL 7032). Additional colour shades on request.

Under sun radiation it may come to discolouration and colour deviation; this has no influence to the function of the coating.

Packaging

Part A:	3.75 kg containers
Part B:	1.25 kg, containers
Part A+B:	5.0 kg ready to mix units

Storage

Storage Conditions/ Shelf-Life

12 months from date of production if stored properly in undamaged sealed containers in dry conditions at temperatures between +5°C and +30°C.

Technical Data

Chemical Base

Epoxy resin

Density	Part A: ~ 1.45 kg/litre Part B: ~ 1.02 kg/litre Mixed resin: ~ 1.37 kg/litre All density values at +23 °C	
Solid Content	~ 100% (by volume), ~ 100% (by weight)	

Mechanical / Physical Properties

Bond Strength	> 1.5 N/mm² (failure in concrete)	ISO 4624

Resistance

Chemical Resistance

See separate chemical resistance list

Thermal Resistance

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

Short-term humid heat* up to +80 °C where exposure is only occasional (steam cleaning etc.).

*No simultaneous chemical load.

System Information

System Structure

Roller coating:
Primer: 1 x Sikagard®-62
Coating: 2 - 3 x Sikagard®-62

Glass fabric reinforced system:
Primer: 1 x Sikagard®-62
Coating: 1 x Sikagard®-62 imbedding of glass fabric
2 - 3 x Sikagard®-62

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Roller coating		
Priming	Sikagard®-62	0.3 - 0.5 kg/m²
Roller coating	Sikagard®-62	0.4 - 1.0 kg/m² per coat, depending on substrate condition and coating thickness required
Glass fabric reinforced system		
Priming	Sikagard®-62	0.3 - 0.5 kg/m²
1st coat	Sikagard®-62	0.8 - 1.0 kg/m²
Imbedding	Glass fabric	Approx. 0.3 kg/m²
2nd coat	Sikagard®-62	0.5 - 0.8 kg/m²
3rd coat	Sikagard®-62	0.3 - 0.5 kg/m²

For a theoretical dry film thickness of 100 microns (0.1 mm) approx. 0.14 kg/m². These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.

Substrate Quality

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm^2) with a minimum pull off strength of 1.5 N/mm^2.

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 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® and Sikagard® range of materials. The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. 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. Steel and iron surfaces must be sandblasted (SA 2 ½).

Application Conditions / Limitations

Substrate Temperature	+8℃ min, +30 ℃ max
Ambient Temperature	+8C min, +30 ℃ max
Substrate Moisture Content	≤ 4% moisture content. Test method: Sika®-Tramex or CM. No rising moisture according to ASTM (Polyethylene-sheet).
Relative Air Humidity	80% r.h. max
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3ºC above the dew point to reduce the risk of condensation or blooming on the floor finish.

Application Instructions

Mixing Ratio / Dosage	Part A : Part B = 75 : 25 (by weight)
Mixing Time	Prior to mixing stir Part A mechanically. When all of Part B has been added to Part A continuously mix for 3 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to reduce air entrainment.
Mixing Tools	Sikagard®-62 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. *Coating:* Sikagard®-62 , can be applied with a distemper brush, a short-piled, solvent resistant, non-fuzzy roller or by airless spray equipment Depending on the type of application we recommend advice is sought from the spray equipment supplier on the type of equipment, tip and filter size, etc, specific for the spraying application. As a guide a tip orifice diameter between 19-23 thou should be considered.
Cleaning of Tools	Clean all tools and application equipment with Thinner C immediately after use. Hardened/cured material can only be mechanically removed.
Potlife	Max. open times

Temperatures	Time
+10℃	~ 30 mins
+20℃	~ 20 mins
+30℃	~ 10 mins

Waiting Time / Overcoatability

Before applying Sikagard®-62 on Sikagard®-62 allow:

Substrate Temperature	minimum	maximum
+10 °C	30 hours	3 days
+20 °C	10 hours	2 days
+30 °C	6 hours	1 days

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

Notes on Application / Limitations

Do not apply Sikagard®-62 on substrates in which significant vapor pressure may occur.

If > 4% moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.

Stability in vertical surface: < 300 µm (wet film thickness)

Freshly applied Sikagard®-62 must be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on surface.

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

For exact colour matching, ensure Sikagard®-62 is applied from the same control batch numbers.

Curing Details

Applied Product ready for use

Temperature	Foot Traffic	Light Traffic	Full cure
+ 10 °C	~ 2 days	~ 5 days	~ 14 days
+ 20 °C	~ 1 days	~ 4 days	~ 10 days
+ 30 °C	~ 18 hours	~ 2 days	~ 5 days

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

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

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