**Sikagard® -62**
2-Part Epoxy Protective Coating

**Product Description**
Sikagard®-62 is a 2-pack total solid (acc. test method of “Deutsche Bauchemie”) high build coating material based on epoxy resin.

*German association of construction chemicals*

**Uses**
- 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, epoxy cements (EpoCem), epoxy mortars and steel.
- For linings to storage tanks and silos, bund areas.
- 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**
- Total solid
- Good chemical and mechanical resistance
- Easy to mix and work
- High-build
- Impervious to liquids

**Product Data**

<table>
<thead>
<tr>
<th>Test</th>
<th>Approval / Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approval</td>
<td>Approval under WRAS, Report-No. 0507505</td>
</tr>
<tr>
<td>Standards</td>
<td>Non-metallic materials in drinking water, BS 6929; Report-No. P20342/2223B</td>
</tr>
<tr>
<td></td>
<td>Conseil Supintrieur d’Hygiishne Publique de France: DGS/VS4 , Report-No. 970082</td>
</tr>
</tbody>
</table>

**USGBC LEED Rating**
Sikagard®-62 conforms to the requirements of LEED
- EQ Credit 4.2: Low –Emitting Materials: Paints & Coatings
- SCAQMD Method 304-91
- VOC Content < 100g/l

**Form**

<table>
<thead>
<tr>
<th>Appearance / Colours</th>
<th>Resin - Part A: Coloured, liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hardener - Part B: Transparent, liquid</td>
</tr>
</tbody>
</table>

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
Preproportioned kit:
- Part A: 9.0 kg
- Part B: 3.0 kg

### 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

<table>
<thead>
<tr>
<th>Exposure*</th>
<th>Dry heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent</td>
<td>+50°C</td>
</tr>
<tr>
<td>Short-term max. 7 d</td>
<td>+80°C</td>
</tr>
<tr>
<td>Short-term max. 12 h</td>
<td>+100°C</td>
</tr>
</tbody>
</table>

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 embedding of glass fabric
    2 - 3 x Sikagard®-62
Application Details
Consumption / Dosage

<table>
<thead>
<tr>
<th>Coating System</th>
<th>Product</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Roller coating</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Priming</td>
<td>Sikagard®-62</td>
<td>0.3 - 0.5 kg/m²</td>
</tr>
<tr>
<td>Roller coating</td>
<td>Sikagard®-62</td>
<td>0.3 - 0.5 kg/m² per coat, depending on substrate condition and coating thickness required</td>
</tr>
</tbody>
</table>

**Glass fabric reinforced system**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Priming</td>
<td>Sikagard®-62</td>
<td>0.3 - 0.5 kg/m²</td>
</tr>
<tr>
<td>1st coat</td>
<td>Sikagard®-62</td>
<td>0.3 - 0.5 kg/m²</td>
</tr>
<tr>
<td>Imbedding</td>
<td>Glass fabric</td>
<td>Approx. 0.3 kg/m²</td>
</tr>
<tr>
<td>2nd coat</td>
<td>Sikagard®-62</td>
<td>0.3 - 0.5 kg/m²</td>
</tr>
<tr>
<td>3rd coat</td>
<td>Sikagard®-62</td>
<td>0.3 - 0.5 kg/m²</td>
</tr>
</tbody>
</table>

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/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 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 surfaces** must be prepared by blast cleaning to Sa 2 ½ (ISO 8501-1) or SSPC-SP 10. All weld splatter has to be removed totally, joints and welds must be grinded in accordance with EN 14879-1. An average surface profile Rz ≥ 50µm must be achieved, the substrate has to be free from contaminants detrimental to adhesion, preferably by high pressure water jetting prior of blast cleaning.
Application
Conditions / Limitations

<table>
<thead>
<tr>
<th>Substrate Temperature</th>
<th>+8°C min, +30 °C max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Temperature</td>
<td>+8°C min, +30 °C max</td>
</tr>
<tr>
<td>Substrate Moisture Content</td>
<td>≤ 4% moisture content. Test method: Sika®-Tramex or CM. No rising moisture according to ASTM (Polyethylene-sheet).</td>
</tr>
<tr>
<td>Relative Air Humidity</td>
<td>80% r.h. max</td>
</tr>
<tr>
<td>Dew Point</td>
<td>Beware of condensation! The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the wall and floor finish. Note: Low temperatures and high humidity conditions increase the probability of blooming.</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Temperatures</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10°C</td>
<td>~ 30 min</td>
</tr>
<tr>
<td>+20°C</td>
<td>~ 20 min</td>
</tr>
<tr>
<td>+30°C</td>
<td>~ 10 min</td>
</tr>
</tbody>
</table>

Waiting Time / Overcoatability
Before applying Sikagard®-62 on Sikagard®-62 allow:

<table>
<thead>
<tr>
<th>Substrate Temperature</th>
<th>minimum</th>
<th>maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10°C</td>
<td>24 hours</td>
<td>3 days</td>
</tr>
<tr>
<td>+20°C</td>
<td>10 hours</td>
<td>2 days</td>
</tr>
<tr>
<td>+30°C</td>
<td>6 hours</td>
<td>1 days</td>
</tr>
</tbody>
</table>

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 vapour pressure may occur.

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

Sag resistance: < 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.

With relative air humidity of ε ≥ 80% the use of heating and dehumidification equipment is essential.

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.

Tools
Recommended Supplier of Tools:

Curing Details
Applied Product ready for use

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Foot Traffic</th>
<th>Light Traffic</th>
<th>Full cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 10°C</td>
<td>~ 2 days</td>
<td>~ 5 days</td>
<td>~ 14 days</td>
</tr>
<tr>
<td>+ 20°C</td>
<td>~ 1 days</td>
<td>~ 4 days</td>
<td>~ 10 days</td>
</tr>
<tr>
<td>+ 30°C</td>
<td>~ 18 hours</td>
<td>~ 2 days</td>
<td>~ 5 days</td>
</tr>
</tbody>
</table>

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.

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.

EU Regulation 2004/42
VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type Sb) is 140 g/l (limit 2010) for the ready to use product.

The maximum content of Sikagard® 62 is < 140 g/l VOC for the ready to use product.