Sika® Level-01 Primer
Acrylic primer and sealing compound for mineral substrates

Product Description
Sika® Level-01 Primer is a one part, white acrylic resin polymer water based dispersion, used to prime and seal concrete or mortar substrates prior to underlayment mortar application.

Uses
- Sika®-Level-01 Primer is used for sealing of mineral substrates and enhancing the bond of cementitious underlayments, industrial grade screeds and mortars
- Suitable for priming anhydrite screed substrates
- Particularly suitable for using prior to the Sika® Level range of underlayments
- Idealy suited for use with the SikaDecor® mineral decorative screed system.

Characteristics / Advantages
- Effectively seals concrete surfaces in a single, economic operation, preventing water loss into the substrate, bubbles forming in the screed and for improving the bond between the substrate and the mortar
- Excellent bond strengths throughout the range of application temperatures
- Quick drying and fast film formation
- Easy to apply
- Can be used at different dilution rates dependent on the substrate porosity

Tests
Approval / Standards
Conforms to the requirements of EN 13813 as SR - B 1.5
Bond values are internal tests according to EN 13892-8.

Product Data
Form
Appearance / Colours
White liquid

Packaging
5 and 25 kg plastic jerrycans.

Storage
Storage Conditions / Shelf Life
12 months from date of production if stored properly in original, unopened and undamaged sealed containers, in dry conditions at temperatures between +5°C and +25°C. Protect from frost.

Technical Data
Chemical Base
Water based, white acrylic resin

Density
~ 1.03 kg/l (at + 20°C)

Solid Content
Concentrate : ~ 45% (by volume) / ~ 46% (by weight)

Mechanical / Physical Properties
Bond strength >1.5 N/mm² (100% cohesive product failure (Y)) (EN 13892-8)
**System Information**

**System Structure**
1 or 2 coats at a 1:3 Sika®-Level-01 Primer to water dilution by volume is adequate for most cases. Depending on the humidity and porosity and moisture content of the substrate, different combinations of dilution rates or number of coats can be used as shown in the table below.

<table>
<thead>
<tr>
<th>Type of substrate</th>
<th>Dilution rate (volume)</th>
<th>Number of coats</th>
</tr>
</thead>
</table>
| Very porous mineral            | 1:4 or 1:5 for 1\(^{st}\) coat  
                                | 1:3 for 2\(^{nd}\) coat   | 2 coats         |
| Normally porous mineral        | 1:3                    | 1 or 2 coats    |
| Hardly porous mineral          | 1:4                    | 1 coat          |

If in doubt apply a test area first.

**Application Details**

**Consumption / Dosage**
~ 0.10 – 0.20 kg / m\(^2\)/coat (5 – 10 m\(^3\)/kg / coat) of diluted product.

Some substrates will require higher consumption than indicated above. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc.

**Substrate Quality**
Surfaces must be sound, open textured, clean and free from frost, cement laitance, surface water, oil, grease, coatings, all loose or friable particles and any other surface contaminants.

**Substrate Preparation**
The substrate must be prepared by suitable mechanical preparation techniques such as high-pressure water or abrasive blast cleaning equipment. All dust, loose and friable material must be completely removed before application of the product, preferably by brush and/or vacuum. The substrate can be dampened to a saturated surface dry or SSD condition prior to application of the diluted Sika® Level-01 Primer.

**Application Conditions / Limitations**

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

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

**Relative Air Humidity**
75% r.h. max

**Application Instructions**

**Mixing**
Sika®-Level-01 Primer is supplied as a concentrate for dilution. Add Sika®-Level-01 Primer to the pre-measured amount of clean drinking quality water according to the desired dilution rate (see System Structure above) and stir thoroughly until a homogeneous mix is achieved.

**Mixing Time**
1 minute

**Mixing Tools**
A simple hand stirrer or stick is adequate

**Application Method / Tools**
Application is best done by brush or by roller (which achieve better penetration and productivity).

However, spray application is also possible, but ‘ponding’ on the surface must be avoided.

The suitability of any spray equipment must be tested first.

Wait for the first coat to dry tack-free before applying the second coat.

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

**Waiting Time/Overcoatability**
Allow previous coats to become tack-free before applying further coats. For mortar application allow:

<table>
<thead>
<tr>
<th>Substrate temperature</th>
<th>10°C</th>
<th>+20°C</th>
<th>+30°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>8 – 12 hours</td>
<td>2 - 4 hours</td>
<td>1.5 – 3 hours</td>
</tr>
</tbody>
</table>

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

Under unfavourable conditions, allow the product film to form overnight.
### Notes on Application / Limitations

- In hot weather (above +25°C) store Sika®-Level-01 Primer in a cool place prior to use.
- In low temperatures (below +15°C) the product may thicken and be less easy to apply.
- Do not apply to substrates at temperatures below +10°C and / or relative humidity above 75%, which will hinder the film formation and result in an inefficient primer.
- The substrate should be surface dry with relative humidity of surrounding air low enough to allow efficient drying of the primer.
- Low temperature or high humidity may lead to poor film formation and pinholes in the levelling layer.
- Do not use product which has been subject to frost.
- Do not add the water to the concentrate as it will cause the product to foam.
- Spray equipment can be used, but ponding must be avoided. Brush or rollers help the product to penetrate better into the substrate.
- This product does not form a moisture barrier. Do not apply when a damp proof membrane is non-existent or has failed.
- The product can be used in combination with industrial self-levelling screeds after adequate texturing of the concrete substrate to provide sufficient key effect.
- The application of an excessive amount of the primer may actually reduce the resulting bond strength values. This amount will vary depending on the substrate.
- Sika® Level-01 Primer is not designed as a primer for Sika PU or AT based adhesives.
- If in doubt, apply a test area first.

### 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

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.
The harmonized European Standard EN 13 813 Screed material and floor screeds - Screed materials - Properties and requirements specifies requirements for screed materials for use in floor construction internally.

Structural screeds or coatings, i.e. those that contribute to the load bearing capacity of the structure, are excluded from this standard.

Resin floor systems as well as cementitious screeds fall under this specification. They have to be CE-labelled as per Annex ZA.3, Tables ZA.1.1 or 1.5 and Z.A.3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

<table>
<thead>
<tr>
<th>Sika Services AG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factory: 1053</td>
</tr>
<tr>
<td>Factory: 1029</td>
</tr>
</tbody>
</table>

07 ¹)

EN 13813 SR - B 1.5

Primer/Sealer (systems as per Product Data Sheet)

<table>
<thead>
<tr>
<th>Reaction to fire:</th>
<th>NPD ²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release of corrosive substances (Synthetic Resin Screed):</td>
<td>SR</td>
</tr>
<tr>
<td>Water permeability:</td>
<td>NPD</td>
</tr>
<tr>
<td>Abrasion Resistance:</td>
<td>NPD</td>
</tr>
<tr>
<td>Bond strength:</td>
<td>B 1.5</td>
</tr>
<tr>
<td>Impact Resistance:</td>
<td>NPD</td>
</tr>
<tr>
<td>Sound insulation:</td>
<td>NPD</td>
</tr>
<tr>
<td>Sound absorption:</td>
<td>NPD</td>
</tr>
<tr>
<td>Thermal resistance:</td>
<td>NPD</td>
</tr>
<tr>
<td>Chemical resistance:</td>
<td>NPD</td>
</tr>
</tbody>
</table>

¹) Last two digits of the year in which the marking was affixed.
²) No performance determined

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / g type wb) is 30 g/l (Limits 2010) for the ready to use product. The maximum content of Sika®-Level-01 Primer is < 30 g/l VOC for the ready to use product.