Product Data Sheet Edition 01/01/2014 Identification no: 02 08 01 02 002 0 000002 Sikafloor®-93 (EC) Primer

Sikafloor[®]-93 (EC) Primer

2-part epoxy primer

| Product Description |
|------------------------|
| Uses |
| |
| Characteristics / |
| Advantages |
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| |
| Product Data |
| |
| Form |
| Appearance / Colou |
| Packaging |
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| Product Description | Sikafloor [®] -93 (EC) Primer is two part, solvent free, low viscosity epoxy resin. | | | |
|---------------------------------|--|--|--|--|
| Uses | For priming concrete substrates, cement screeds and epoxy mortars | | | |
| | For normal to strong absorbent substrates | | | |
| | Primer for the Sikafloor[®] flooring systems | | | |
| Characteristics / Advantages | Low viscosity | | | |
| | Good penetration | | | |
| | Excellent bond strength | | | |
| | Solvent free | | | |
| | Easy application | | | |
| | Short waiting times | | | |

| Form | | | |
|-----------------------------------|--|---|--|
| Appearance / Colours | Resin - Part A: Hardener - Part B: | grey, liquid yellowish, liquid | |
| Packaging | Part A: Part B: Part A+B: | 3.2 kg x 2 container 0.8 kg x 2 container 4.0 kg x 2 ready to mix units | |
| 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 $+35$ °C. | | |
| Technical Data | | | |
| Chemical Base | Ероху | | |
| Density | Part A: Part B: Mixed Resin: | ~ 1.65 kg/l ~ 1.03 kg/l ~ 1.45 kg/l | |
| | All density values at +27 °C | | |
| Solid Content | ~ 100% (by volume) / ~ 100% (by weight) | | |



| Compressive Strength | ~ 70 N/mm ² (14 days / +27 ° | C) | (According to IS 9162-1979) | | |
|--|--|---|--|--|--|
| Flexural Strength | $\sim 45 \text{ N/mm}^2$ (14 days / +27° | • | | | |
| Bond Strength | > 1.5 N/mm ² (failure in conc | | (According to IS 9162-1979 (According to ISO 4624 | | |
| Dona Otterigin | | | (According to 100 4024) | | |
| Resistance | | | | | |
| Thermal Resistance | | | | | |
| | Exposure* | | Dry heat +50°C | | |
| | Permanent | | | | |
| | *No simultaneous chemical and med broadcast system with approx. 3 - 4 | chanical exposure and only in com mm thickness | bination with Sikafloor [®] systems as a | | |
| System Information | | | | | |
| System Structure | - | Primer: Low / medium porosity concrete: 1 x Sikafloor [®] -93 (EC) Primer High porosity concrete: 2 x Sikafloor [®] -93 (EC) Primer | | | |
| Application Details | | | | | |
| Consumption / Dosage | Coating System | Product | Consumption | | |
| | Priming | Sikafloor [®] -93 (EC) Primer | 0.25 - 0.4 kg/m² | | |
| | Note: These figures are theoretical and do not allow for any additional material required due to surface porosity, surface profile, variations in level or wastage etc. | | | | |
| Substrate Quality | Concrete substrates must be sound and of sufficient compressive strength (minimum 20 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, scarifying or grinding 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 | d by e.g. grinding. | | | |
| | | ose and friable material must be completely removed from all surf plication of the product, preferably by brush and/or vacuum. | | | |
| Application Conditions / Limitations | | | | | |
| Substrate Temperature | +8℃ min. / +35℃ max. | | | | |
| Ambient Temperature | +8 ℃ min. / +35 ℃ max. | | | | |
| Substrate Moisture | < 4% moisture content. | | | | |
| Content | Test method: Sika [®] -Tramex meter, CM - measurement or Oven-dry-method. | | | | |
| | No rising moisture according to ASTM (Polyethylene-sheet). | | | | |
| | No rising moisture according | g to ASTM (Polyethylene-sl | neet). | | |

| Dew Point | 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 floor finish. | | | | |
| Application Instructions | | | | | |
| Mixing | Part A : Part B = 4 : 1 (by we | eight) | | | |
| Mixing Time | Prior to mixing, stir part A m A, mix continuously for 3 mi | | | | |
| | When parts A and B have been mixed, add the quartz sand and if required the Extender T and mix for a further 2 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 avoide | Over mixing must be avoided to minimise air entrainment. | | | |
| Mixing Tools | Sikafloor [®] -93 (EC) Primer m stirrer (300 - 400 rpm) or oth | | | ng a low speed electric | |
| | For the preparation of mortars use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers should not be used. | | | | |
| Application Method / | Prior to application, confirm | substrate moi | sture content, | r.h. and dew point. | |
| Tools | If > 4% moisture content, Sikafloor [®] EpoCem [®] may be applied as a Temporary Moisture Barrier (TMB) system. | | | | |
| | <i>Primer:</i> Make sure that a continuous, pore free coat covers the substrate. If nec apply two priming coats. Apply Sikafloor [®] -93 (EC) Primer by brush, rolle squeegee. | | | | |
| Cleaning of Tools | Clean all tools and application equipment with Sika [®] Colma Cleaner or suitable thinner immediately after use. Hardened and/or cured material can only be removed mechanically. | | | | |
| Potlife | 2 kg mass | | | | |
| | Temperature | | Time | | |
| | +10 <i>°</i> C | | ~ 50 minutes | | |
| | +20 °C | +20℃ | | ~ 25 minutes | |
| | +30 °C | | ~ 15 minutes | | |
| Waiting Time / | Before applying solvent free products on Sikafloor [®] -93 (EC) Primer allow: | | | | |
| Overcoating | Substrate temperature | Minimum | | Maximum | |
| | +10°C | 24 h | ours | 4 days | |
| | | 12 hours | | | |
| | +20 °C | 12 h | ours | 2 days | |
| | +20 °C +30 °C | 12 h 8 ho | | 2 days 24 hours | |
| | +30 °C | 8 ho | ours | 24 hours | |
| | +30 °C Before applying solvent con | 8 ho | ours its on Sikafloo | 24 hours | |
| | +30 °C | 8 ho | ours Its on Sikafloo mum | 24 hours [®] -93 (EC) Primer allow: | |
| | +30 °C Before applying solvent con Substrate temperature | 8 ho taining produc Minii | ours ets on Sikafloo mum ours | 24 hours [®] -93 (EC) Primer allow: Maximum | |
| | +30 °C Before applying solvent con Substrate temperature +10 °C | 8 ho taining produc Minin 24 h | ours ts on Sikafloor num ours ours | 24 hours ®-93 (EC) Primer allow: Maximum 4 days | |
| | +30 °C Before applying solvent com Substrate temperature +10 °C +20 °C | 8 ho taining produc Minin 24 h 12 h 8 ho will be affecte | ours num ours ours ours ours d by changing | 24 hours [®] -93 (EC) Primer allow: Maximum 4 days 2 days 24 hours | |
| | +30 °C Before applying solvent com Substrate temperature +10 °C +20 °C +30 °C Times are approximate and | 8 ho taining produc Minin 24 h 12 h 8 ho will be affecte I relative humin | ours mum ours ours ours d by changing dity. | 24 hours [®] -93 (EC) Primer allow: <u>Maximum</u> 4 days 2 days 24 hours ambient conditions | |
| | +30 °C Before applying solvent com Substrate temperature +10 °C +20 °C +30 °C Times are approximate and particularly temperature and | 8 ho taining produc Minin 24 h 12 h 8 ho will be affecte I relative humin EC) Primer or 3 (EC) Primer | burs ts on Sikafloon mum ours ours burs d by changing dity. n substrates wi should be pro | 24 hours [®] -93 (EC) Primer allow: Maximum 4 days 2 days 24 hours ambient conditions th rising moisture. | |
| Notes on Application / Limitations | +30 ℃ Before applying solvent com Substrate temperature +10 ℃ +20 ℃ +30 ℃ Times are approximate and particularly temperature and Do not apply Sikafloor [®] -93 (Freshly applied Sikafloor [®] -9 | 8 ho taining produc Minin 24 h 12 h 8 ho will be affecte I relative humin EC) Primer or 3 (EC) Primer at least 24 ho | ours ts on Sikafloon mum ours ours ours d by changing dity. n substrates wi should be pro- urs. | 24 hours [®] -93 (EC) Primer allow: Maximum 4 days 2 days 24 hours ambient conditions th rising moisture. | |

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grain size distribution.

For external applications, apply on a falling temperature. If applied during rising temperatures "pin holing" may occur from rising air.

Floor cracks and joints require pre-treatment. Treat as follows:

- Static: prefill and level with Sikadur[®] or Sikafloor[®] epoxy resin
- Dynamic: to be assessed and if necessary apply a stripe coat of elastomeric material or design as a movement joint

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

Under certain conditions, underfloor 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 CO_2 and H_2O 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 | Foot traffic | Light traffic | Full cure | |
| | +10°C | ~ 24 hours | ~ 6 days | ~ 10 days | |
| | +20 °C | ~ 12 hours | ~ 4 days | ~ 7 days | |
| | +30 °C | ~ 8 hours | ~ 2 days | ~ 5 days | |
| | Note: Times are approximate and will be effected 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. | | | | |
| 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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