

PRODUCT DATA SHEET

Sikafloor[®]-191

Two-component epoxy primer

DESCRIPTION

Sikafloor[®]-191 consists of epoxy resin and curing agent, is a two-component, the product is supplied in the form of pre-weighed package supply, can be used after mixing on site. After application, a dense coating film is formed.

USES

Sikafloor[®]-191 may only be used by experienced professionals.

Use as a primer for concrete substrates, leveling layers, and epoxy mortars. Use as a primer for Sika epoxy flooring systems on highly absorbent substrates.

CHARACTERISTICS / ADVANTAGES

- Low viscosity
- Easy to apply - simple roll-on application
- Excellent penetration strength
- Good adhesion
- No solvents
- Short recoatable time

APPROVALS / STANDARDS

Meet to the requirements of GB/T 22374-2018

PRODUCT INFORMATION

| | | | |
|--|--|---------------------|-----------------|
| Chemical Base | Epoxy | | |
| Packaging | Part A: | 12.2 kg/pail | |
| | Part B: | 5.5 kg/pail | |
| | Part A+B: | 17.7 kg/set | |
| Appearance / Colour | Part A: | transparent, liquid | |
| | Part B: | brownish, liquid | |
| Shelf Life | 12 months | | |
| Storage Conditions | Stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C. | | |
| Density | Part A: | ~1.13 kg/L | GB/T 6750-2007 |
| | Part B: | ~1.02 kg/L | |
| | Mix Resin: | ~1.03 kg/L | |
| Volatile Organic Compound (VOC) Content | ≤ 60 g/L | | GB/T 22374-2018 |

TECHNICAL INFORMATION

| | | |
|----------------------------------|--|---|
| Tensile Adhesion Strength | ≥2.0 MPa | GB/T 22374-2018 |
| Resistance to Alkalinity | Saturated calcium hydroxide solution, 48 hours | Paint film is complete, no blistering, no flaking, allow slight discoloration |

APPLICATION INFORMATION

| | | | |
|--------------------|--------------------------------|------------------------------------|-----------------------------------|
| Consumption | Primer: | | |
| | Low / medium porosity concrete | 1 × Sikafloor®-191 | ~0.1 kg/m ² |
| | High porosity concrete | 2 × Sikafloor®-191 | ~0.15-0.20 kg/m ² |
| | Top Coat: | | |
| | Sika Epoxy Surfacing Products | Sikafloor®-263SL Sikafloor®-264 | see corresponding PDS for details |

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

| | | |
|-----------------------------------|--|-------------|
| Ambient Air Temperature | +10 °C min. / +30 °C max. | |
| Relative Air Humidity | 80 % max. | |
| Dew Point | Beware of condensation! The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish. | |
| Substrate Temperature | +10 °C min. / +30 °C max. | |
| Substrate Moisture Content | < 4 % pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet). | |
| Pot Life | Temperature | Time |
| | +10 °C | ~50 minutes |
| | +20 °C | ~25 minutes |
| | +30 °C | ~15 minutes |

| | | | |
|-----------------------------------|---|----------|---------|
| Waiting Time / Overcoating | Time to apply Sika epoxy topcoat product over completed Sikafloor®-191: | | |
| | Substrate temperature | Minimum | Maximum |
| | +10 °C | 24 hours | 4 days |
| | +20 °C | 12 hours | 2 days |
| | +30 °C | 6 hours | 1 days |

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

BASIS OF PRODUCT DATA

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.

LIMITATIONS

- Do not apply Sikafloor®-191 on substrates in which significant vapour pressure may occur.
- Primer should be applied to solid, clean concrete or steel surfaces.
- If in doubt, a small area should be tested on site first.
- Freshly applied Sikafloor®-191 must be protected from damp, condensation and water.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and

reflective cracking.

- Material Temperature: Precondition material for at least 24 hours between 18° to 24°C.
- The product cannot be applied below 5°C and is best kept above 10°C.

ECOLOGY, HEALTH AND SAFETY

EQUIPMENT

Sikafloor®-191 must be mechanically mixed using an electric power stirrer (300 - 400rpm) or other suitable equipment.

SUBSTRATE QUALITY / PRE-TREATMENT

- Concrete substrates must be sound and of sufficient compressive strength (minimum 25 MPa)

with a minimum pull off strength of 1.5 MPa.
Fresh concrete floors
New concrete surfaces should be cured for at least 28 days before construction. Light sandblasting, mechanical roughening or grinding is preferred to remove screeds from new concrete floors.

Old Concrete Floors

Mechanical cleaning is especially recommended for old concrete floors, especially heavily grease-stained or coated floors. These stains may have penetrated a few millimeters into the concrete, and all stains should be removed in order to ensure good adhesion. If the floor has only small areas of light grease staining, it can be cleaned with a special chemical degreaser.

- If in doubt, apply a test area first.
- 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 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 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.

MIXING

Before mixing, stirred component A (resin) thoroughly, then add component B in its entirety and stirred continuously for three minutes until a homogeneous mixture is obtained.

When the mixing of components A and B is complete, add the grit and selective additives (thixotropic agents) and mix for a further two minutes until a homogeneous mixture is obtained.

Pour the ingredients into a separate mixing vessel to ensure sufficient homogenization.

Avoid over-mixing and bringing in too much air.

APPLICATION

Prior to application, confirm substrate moisture content, r.h. and dew point.

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

Once mixed, Sikafloor®-191 is immediately applied to the pre-treated clean substrate to form a continuous

film. Brush the primer into the concrete surface, taking care to avoid build-up or over-coating. On porous surfaces, the primer will be quickly absorbed and leave characteristic light-colored patches. A second coat of primer is recommended for these areas.

CLEANING OF TOOLS

Clean all tools with Thinner C immediately after use. Hardened and/or cured material can only be mechanically removed.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,

6 On Ping Street, Shatin, N.T., H.K.

Phone: +852 26868108

Fax: +852 26453671

Mail: marketing@hk.sika.com

Website: www.sika.com.hk



Product Data Sheet

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