

PRODUCT DATA SHEET

Sikafloor®-400 N Elastic

one part, highly elastic, solvent containing, UV resistant, coloured, moisture curing polyurethane resin coating.

DESCRIPTION

Sikafloor®-400 N Elastic is a one part, highly elastic, solvent containing, UV resistant, coloured, moisture curing polyurethane resin coating.

USES

Sikafloor®-400 N Elastic may only be used by experienced professionals.

Sikafloor®-400 N Elastic is used as:

- Smooth or slip resistant, UV resistant, waterproof, crack-bridging coating for concrete and cementitious screed substrates
- For light to medium mechanical exposure
- For balconies, terraces, footbridges, stairways etc.
- As the top coat in the Sika Ground Water Protection System (I N) for Bund Containment Areas

CHARACTERISTICS / ADVANTAGES

- Highly elastic
- Crack-bridging
- Waterproof
- UV resistant, non-yellowing
- Weather resistant
- Abrasion resistant with normal use
- Slip resistant surfaces are possible

APPROVALS / STANDARDS

- Synthetic resin screed material for floor screeds according to EN 13813:2002, Declaration of Performance 0208050100100000011008, certified by notified factory production control body 0921 and provided with the CE mark
- Coating for concrete protection according to EN 1504-2:2004, Declaration of Performance 0208050100100000011008, certified by notified factory production control body 0921 and provided with the CE mark
- Approval for "Ground Water Protection System", Z-59.12-4, DIBt, Germany, July 2008.

PRODUCT INFORMATION

| | |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Base | PUR |
| Packaging | 6 kg, 18 kg units |
| Appearance / Colour | Coloured liquid. Almost unlimited choice of colour shades. |
| Shelf Life | 6 months from date of production |
| Storage Conditions | The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. |
| Density | ~ 1.6 kg/l (DIN EN ISO 2811-1) |
| Solid content by weight | ~ 88 % |

TECHNICAL INFORMATION

| | | | |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|
| Abrasion Resistance | 30 mg (CS 10/1000/1000) | (8 days / +23 °C) | (DIN 53109) |
| Elongation at Break | At +23 °C | ~320 % | (DIN 53504) |
| | At -20 °C | ~70 % | |
| Chemical Resistance | Resistant to many chemicals. Contact Sika technical service. Attention: Wine, coffee, some leaves and flower petals etc. may cause surface discolouration. This will have no effect on the product performance and durability. Use Sikafloor®-410 for improved cleanability and resistance to contamination. | | |
| Thermal Resistance | Exposure* | Dry heat | |
| | Permanent | +50 °C | |
| | Short-term max. 7d | +80 °C | |
| | Short-term max. 8h | +100 °C | |
| *No simultaneous chemical and mechanical exposure. | | | |

SYSTEM INFORMATION

| | | |
|----------------|-------------------------------------------|---------------------------------------------------------------------|
| Systems | Please refer to the System Data Sheet of: | |
| | Sikafloor® MonoFlex MB-23 | Smooth, unicolour, 1 part polyurethane, crack bridging floor finish |
| | Sikafloor® MonoFlex MB-24 | Smooth, 1-component, crack-bridging, decorative floor covering |

APPLICATION INFORMATION

| | | |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Consumption | 0.4 - 1.5 kg/m ² /mm depending on the application. Please refer to the respective System Data Sheet. | |
| Ambient Air Temperature | +10 °C min. / +30 °C max. | |
| Relative Air Humidity | 80 % r.h. max. 35 % min. (below +20 °C: 45 % min.) | |
| 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 | The material in opened containers should be applied immediately. With open containers surface film formation will happen within 1-2 hours. High temperatures and high air humidity will accelerate curing significantly. | |
| Curing Time | Before overcoating Sikafloor®-400 N Elastic allow: | |
| | Substrate temperature | Minimum Maximum |
| | +10 °C | 36 hours 5 days |
| | +20 °C | 24 hours 3 days |
| | +30 °C | 16 hours 2 days |
| Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. | | |

Applied Product Ready for Use

| Temperature (r.h. 50%) | Rain resistant | Foot traffic | Full cure |
|------------------------|----------------|----------------|---------------|
| +10 °C | ~15 hours | ~1 - 2 days* | ~7 - 14 days* |
| +20 °C | ~5 hours | ~6 - 24 hours* | ~5 - 9 days* |
| +30 °C | ~3 hours | ~4 - 18 hours* | ~3 - 5 days* |

*Strongly influenced by layer thickness

Note: Times are approximate and will be affected by changing ambient conditions

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.

FURTHER DOCUMENTS

Substrate quality & Preparation

Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

Application instructions

Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

LIMITATIONS

Do not apply Sikafloor®-400 N Elastic on substrates with rising moisture. Freshly applied Sikafloor®-400 N Elastic must be protected from damp, condensation and water for at least 24 hours. Prior to overcoating with Sikafloor®-400 N Elastic, the priming coats must have cured tack-free. Do not use for interior applications. Always apply during falling temperatures. If applied during rising temperatures "pin holing" may occur from rising air. The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

For exact colour matching, ensure the Sikafloor®-400 N Elastic in each area is applied from the same control batch numbers. Under certain conditions 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 CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum

allowed content of VOC (Product category IIA / i type sb) is 500 g/l (Limit 2010) for the ready to use product. The maximum content of Sikafloor®-400 N Elastic is < 500 g/l VOC for the ready to use product.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull of strength shall not be less than 1.5 N/mm². If in doubt apply a test area first.

MIXING

Prior to use stir Sikafloor®-400 N Elastic mechanically for 3 minutes. If required the Thinner C or Extender T should be added into the Sikafloor®-400 N Elastic until a uniform mix has been achieved. Over mixing must be avoided to minimise air entrainment.

Mixing Tools:

Sikafloor®-400 N Elastic must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point.

As a primer Sikafloor®-400 N Elastic can be applied by brush, roller or squeegee and as a coating Sikafloor®-400 N Elastic is poured and spread evenly with a trowel.

CLEANING OF TOOLS

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

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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.

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.

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