

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-39

SMOOTH, TOUGH-ELASTIC, UNICOLOUR EPOXY FLOOR COVERING
WITH IMPROVED CHEMICAL RESISTANCE

PRODUCT DESCRIPTION

Sikafloor® MultiDur ES-39 is a smooth, tough-elastic, coloured epoxy covering with improved chemical resistance for flooring applications

USES

Sikafloor® MultiDur ES-39 may only be used by experienced professionals.

Crack-bridging and chemically resistant coating for concrete and screed surfaces in bund areas for the protection against water contaminating liquids

CHARACTERISTICS / ADVANTAGES

- Improved chemical resistance
- Crack-bridging
- Liquid proof

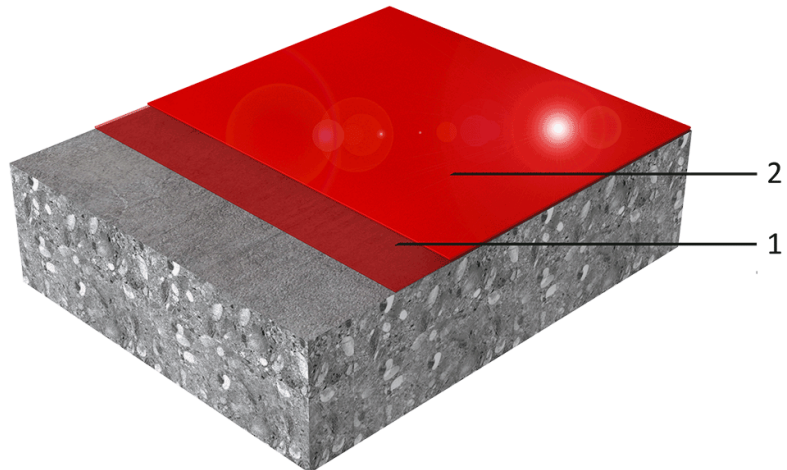
APPROVALS / STANDARDS

- Fire classification in accordance with DIN EN 13501-1: 2010, class Bfl-S1, Report-No. KB-Hoch-141525, Germany, January, 2015
- Approval as "Water protection system", Z-59.12-392, DIBt, Germany
- Static crack-bridging test, class A5 according to EN-1262-7, Report No.PB 5.1/12-099-1, MFPA Leipzig GmbH, Germany, September 2012

SYSTEM INFORMATION

System Structure

Sikafloor® MultiDur ES-39



| Layer | Product |
|-----------------|---------------------|
| 1. Primer | Sikafloor®-156/-161 |
| 2. Wearing coat | Sikafloor®-390 N |

| | |
|--------------------------|-------------------------------------|
| Chemical base | Epoxy |
| Appearance | Smooth, gloss finish |
| Colour | Available in various colour shades. |
| Nominal Thickness | ~2.0–3.0 mm |

TECHNICAL INFORMATION

| Shore D Hardness | ~60 (7 days at 23°C) | ZG (German Standard for water protection) | | | | | | | |
|-------------------------------|---|---|----------|-----------|--------|---------------------|--------|----------------------|---------|
| Crack Bridging Ability | 0.4 mm Static, class A5 (23 °C) | (DIN EN 1062-7) | | | | | | | |
| Reaction to Fire | Bfl-S1 | (DIN EN 13501-1) | | | | | | | |
| Chemical Resistance | Please refer to the chemical resistance of Sikafloor®-390 N | | | | | | | | |
| Thermal Resistance | <table border="1"> <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> <p>Short-term moist/wet heat* up to +80 °C where exposure is only occasional (i.e. during steam cleaning etc.) *No simultaneous chemical and mechanical exposure.</p> | Exposure* | Dry heat | Permanent | +50 °C | Short-term max. 7 d | +80 °C | Short-term max. 12 h | +100 °C |
| Exposure* | Dry heat | | | | | | | | |
| Permanent | +50 °C | | | | | | | | |
| Short-term max. 7 d | +80 °C | | | | | | | | |
| Short-term max. 12 h | +100 °C | | | | | | | | |

APPLICATION INFORMATION

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|--------------------------------|--|------------------------------|----------------------------|
| Consumption | Sikafloor® MultiDur ES-39 system (~2–3 mm) | | |
| | Coating System | Product | Consumption |
| | Primer | 1 × Sikafloor®-156/-161 | ~0.3–0.5 kg/m ² |
| | Wearing coat | Sikafloor®-390 N (un-filled) | ~1.6 kg/m ² /mm |
| Product Temperature | Please refer to the individual Product Data Sheet | | |
| Ambient Air Temperature | +10 °C min. / +30 °C max. | | |
| Relative Air Humidity | 80 % r.h. 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 | When performing application work with Sikafloor® MultiDur ES-39, the substrate moisture content must not exceed 4 % pbw measured by Tramex. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet). | | |
| Waiting Time / Overcoating | Before applying Sikafloor®-390 N on Sikafloor®-156/161/160 allow: | | |
| | Substrate temperature | Minimum | Maximum |
| | +10 °C | 24 hours | 4 days |
| | +20 °C | 12 hours | 2 days |
| | +30 °C | 8 hours | 1 day |
| | Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. | | |
| Applied Product Ready for Use | Temperature | Foot traffic | Light traffic |
| | +10 °C | ~48 hours | ~6 days |
| | +20 °C | ~30 hours | ~4 days |
| | +30 °C | ~20 hours | ~3 days |
| | For traffic with solid / hard wheeled lift trucks allow 3 weeks curing time. | | |

PRODUCT INFORMATION

| | |
|---------------------------|---|
| Packaging | Please refer to the individual Product Data Sheet |
| Shelf Life | Please refer to the individual Product Data Sheet |
| Storage Conditions | Please refer to the individual Product Data Sheet |

MAINTENANCE

versely affect the finish. For heating use only electric powered warm air blower systems.

CLEANING

Please refer to the Sikafloor®- Cleaning Regime

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.

FURTHER DOCUMENTS

Please refer to :

- Sika® Information Manual Mixing & Applications of Flooring systems
- Sika® Information Manual Evaluation and Preparation of Surfaces for Flooring systems

LIMITATIONS

- Do not apply Sikafloor® MultiDur ES-39 on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-39 must be protected from damp, condensation and water for at least 24 hours.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-390 N in each area is applied from the same control batch numbers.
- 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 CO₂ and H₂O water vapour, which may ad-

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.

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.

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.

SIKA LIMITED

Watchmead

Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited

SIKA IRELAND LIMITED

Ballymun Industrial Estate

Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland



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