

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-14 ECC

BROADCAST UNICOLOUR EPOXY FLOOR COVERING OVER EPOXY HYBRID SCREED

PRODUCT DESCRIPTION

Sikafloor® MultiDur EB-14 ECC is an epoxy antislip system for industrial floors on damp substrates.

USES

Sikafloor® MultiDur EB-14 ECC may only be used by experienced professionals.

For industrial floors subject to medium and heavy traffic, such as warehouses, storage areas, car parks and laboratories.

CHARACTERISTICS / ADVANTAGES

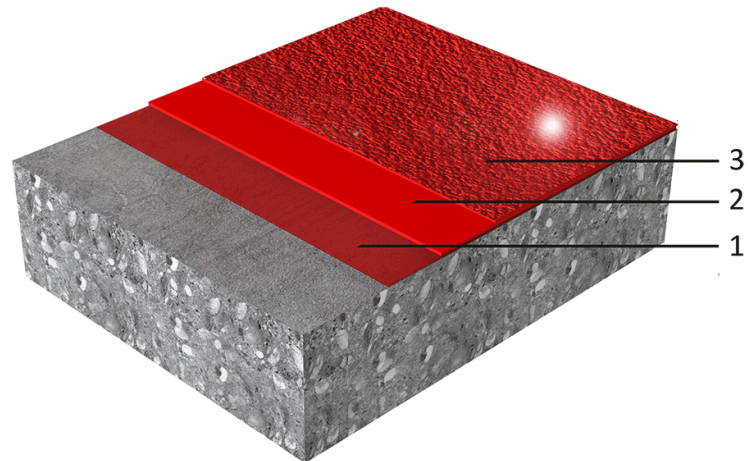
- High wear resistance
- Good mechanical resistance
- Good chemical resistance
- Medium thermal shock resistance
- Slip resistant
- Fast and easy application
- Thermal expansion properties similar to concrete
- Excellent bond to green or hardened concrete whether damp or dry
- Excellent early and final mechanical strengths
- Excellent resistance to water and oils
- For internal use
- Contains no solvents
- Will not corrode reinforcement steel

APPROVALS / STANDARDS

- Coating for concrete protection according to EN 1504-2:2004 and provided with the CE-marking
- Certified as part of the Surface Protection System OS 8 according to DIN V 18026 (Rili-DAfStb)

SYSTEM INFORMATION

System Structure



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| 1. Primer | Sikafloor®-155 WN |
| 2. Levelling screed + broadcast in excess | Sikafloor®-81 EpoCem® + aggregate broadcast quartz sand 0.3-0.8 mm |
| 3. Top coat | Sikafloor®-264 |

| | |
|--------------------------|---|
| Composition | Epoxy |
| Appearance | Slip resistant gloss finish |
| Colour | RAL 1001, 6021, 7030, 7032, 7035, 7037, 7038, 7040, 7042, 9002 Other colours on request. |
| Nominal Thickness | ~ 2-4mm |

TECHNICAL INFORMATION

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|----------------------------------|--|-----------------------------------|
| Abrasion Resistance | 41 mg (CS 10/1000/1000) (8 days / +23 °C) | (DIN 53 109 (Taber Abraser Test)) |
| Compressive Strength | 60 N/mm ² (28 days at 23 °C / 50 % R.H.) | (EN 13892-2) |
| Tensile Strength | 14 N/mm ² (28 days at 23 °C / 50 % R.H.) | (EN 13892-2) |
| Tensile Adhesion Strength | > 1.5 N/mm ² (failure in concrete) | (ISO 4624) |
| Chemical Resistance | Refer to chemical resistance of Sikafloor®-264 | |
| Coefficient of Friction | μ = 0.54 | (DIN 51131) |
| Skid / Slip Resistance | R11 V4 | (DIN 51130) |

APPLICATION INFORMATION

| Consumption | Coating System | Product | Consumption |
|-------------|------------------------|---------------------------|---|
| | 1. Primer | 1 x Sikafloor®-155 WN | ~ 0.3–0.5 kg/m ² thinned with 10 % wa- ter |
| | 2. Levelling screed | Sikafloor®-81 EpoCem® | ~2.25 kg/m ² /mm ~4.5 kg/ m ² for a 2 mm thick application (min- imum for T.M.B) |
| | Broadcasting in excess | Quartz Sand 0.3-0.8 mm | ~ 4–6 kg/m ² |
| | Top coat | 1–2 x Sikafloor®-264 | ~ 0.6-0.8 kg/m ² |

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|--------------------------------|---|
| 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 temperature must be at least 3 °C above the 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 | Can be applied on green or damp concrete, without any standing water. Although the system can be applied onto green concrete surfaces (> 24 hours), it is advised to allow at least 3 days for early shrinkage of concrete to occur in order to prevent concrete shrinkage cracks from appearing on the screed surface. | | | | | | | | | | | | | | | | | | | | | | |
| Waiting Time / Overcoating | <p>Before applying Sikafloor®-81 EpoCem® on Sikafloor®-155 WN allow:</p> <table border="1"> <thead> <tr> <th>Substrate Temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>12 hours</td> <td>72 hours</td> </tr> <tr> <td>+20°C</td> <td>6 hours</td> <td>48 hours</td> </tr> <tr> <td>+30°C</td> <td>4 hours</td> <td>24 hours</td> </tr> </tbody> </table> <p>Sikafloor®-81 EpoCem® can be overcoated with vapour tight coatings when the surface humidity falls below 4%! Not earlier than :</p> <table border="1"> <thead> <tr> <th>Substrate Temperature</th> <th>Waiting Time</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>2 days</td> </tr> <tr> <td>+20°C</td> <td>1 day</td> </tr> <tr> <td>+30°C</td> <td>1 day</td> </tr> </tbody> </table> | | | Substrate Temperature | Minimum | Maximum | +10°C | 12 hours | 72 hours | +20°C | 6 hours | 48 hours | +30°C | 4 hours | 24 hours | Substrate Temperature | Waiting Time | +10°C | 2 days | +20°C | 1 day | +30°C | 1 day |
| Substrate Temperature | Minimum | Maximum | | | | | | | | | | | | | | | | | | | | | |
| +10°C | 12 hours | 72 hours | | | | | | | | | | | | | | | | | | | | | |
| +20°C | 6 hours | 48 hours | | | | | | | | | | | | | | | | | | | | | |
| +30°C | 4 hours | 24 hours | | | | | | | | | | | | | | | | | | | | | |
| Substrate Temperature | Waiting Time | | | | | | | | | | | | | | | | | | | | | | |
| +10°C | 2 days | | | | | | | | | | | | | | | | | | | | | | |
| +20°C | 1 day | | | | | | | | | | | | | | | | | | | | | | |
| +30°C | 1 day | | | | | | | | | | | | | | | | | | | | | | |
| Applied Product Ready for Use | <table border="1"> <thead> <tr> <th>Temperature</th> <th>Foot Traffic</th> <th>Light Traffic</th> <th>Full Cure</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>~ 72 hours</td> <td>~ 6 days</td> <td>~ 10 days</td> </tr> <tr> <td>+20 °C</td> <td>~ 24 hours</td> <td>~ 4 days</td> <td>~ 7 days</td> </tr> <tr> <td>+30 °C</td> <td>~ 18 hours</td> <td>~ 2 days</td> <td>~ 5 days</td> </tr> </tbody> </table> | Temperature | Foot Traffic | Light Traffic | Full Cure | +10 °C | ~ 72 hours | ~ 6 days | ~ 10 days | +20 °C | ~ 24 hours | ~ 4 days | ~ 7 days | +30 °C | ~ 18 hours | ~ 2 days | ~ 5 days | <p>Note: Times are approximate and will be affected by changing ambient conditions.</p> | | | | | |
| Temperature | Foot Traffic | Light Traffic | Full Cure | | | | | | | | | | | | | | | | | | | | |
| +10 °C | ~ 72 hours | ~ 6 days | ~ 10 days | | | | | | | | | | | | | | | | | | | | |
| +20 °C | ~ 24 hours | ~ 4 days | ~ 7 days | | | | | | | | | | | | | | | | | | | | |
| +30 °C | ~ 18 hours | ~ 2 days | ~ 5 days | | | | | | | | | | | | | | | | | | | | |

PRODUCT INFORMATION

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|---------------------------|---|
| 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

CLEANING

Refer to the Method Statement Sikafloor®-Cleaning Regime

FURTHER DOCUMENTS

- Sika® Method Statement Mixing & Applications of Flooring systems
- Sika® Method Statement Evaluation and Preparation of Surfaces for Flooring systems

LIMITATIONS

- Always ensure good ventilation when using Sikafloor® MultiDur EB-14 ECC in a confined space to remove excess moisture.
- Freshly applied Sikafloor® MultiDur EB-14 ECC must be protected from damp, condensation and water for

at least 24 hours.

- Prevent premature drying by protecting from strong wind and do not expose to direct sun light while fresh.
- Applications under extreme conditions (high temperature and low humidity) which can cause fast drying of the products must be avoided as the product does not allow the use of curing compounds.
- Static cracks: Prefill and level with Sikadur® or Sikafloor® epoxy resin.
- Dynamic cracks (> 0.4 mm): To be assessed on site and if necessary apply a stripe coat of elastomeric material or design as a movement joint.

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.

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.

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