

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-23 ECC HK

SMOOTH UNICOLOUR EPOXY FLOOR COVERING

DESCRIPTION

Sikafloor® MultiDur ES-23 ECC HK is a smooth coloured rigid system for flooring applications.

USES

Sikafloor® MultiDur ES-23 ECC HK may only be used by experienced professionals.

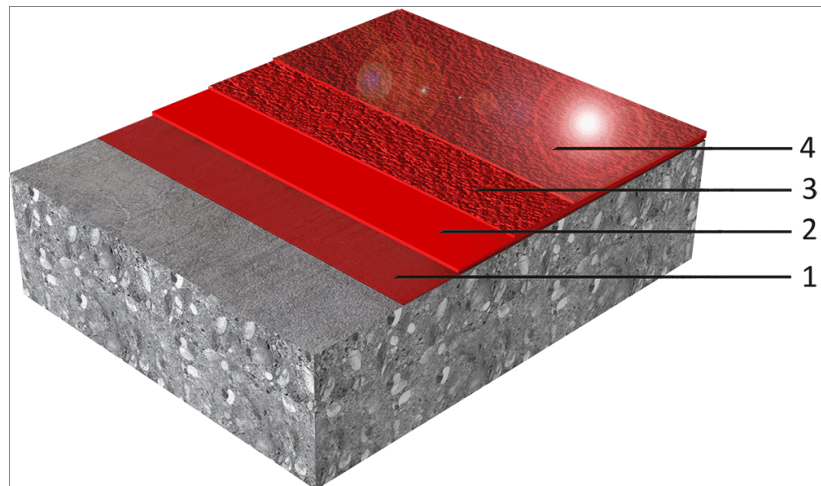
Self-smoothing system for concrete and cement screeds with medium heavy wear e.g. indoor and outdoor carpark system.

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Good wear and abrasion resistance
- Easy application
- Liquid proof
- Gloss finish
- Easy cleanability
- Colour options
- High solids
- Slip resistance surface
- Good UV resistance, non-yellowing

SYSTEM INFORMATION

System Structure



Sikafloor® MultiDur ES-23 ECC HK (~ 3 mm)

| | |
|--------------------------------------|------------------------------|
| 1. Primer | SikaRepair® EpoCem Modul HC |
| 2. Moisture barrier & self levelling | Sikafloor®-81 EpoCem® New HC |
| 3. Colour coat | Sikafloor®-264 |
| 4. Top coat | Sikafloor®-315 |

Composition

Polyurethane, Epoxy

| | |
|-------------------|---------------------|
| Appearance | Smooth gloss finish |
| Nominal Thickness | ~ 2.6–3.0 mm |

TECHNICAL INFORMATION

| | | |
|------------------------|--|-----------------------|
| Shore D Hardness | ~ 76 (7 days / +23 °C) | (DIN 53 505) |
| Abrasion Resistance | 10–20 mg (CS 17/1000/1000) | (ASTM D4060) |
| Compressive Strength | ~ 108 N/mm ² | BS 6319: Part 2: 1983 |
| Tensile Strength | ~ 13.5 N/mm ² (7 days / +23 °C) | (BS 6319: Part: 7) |
| Skid / Slip Resistance | PTV : Dry 136 / Wet 30 | (BS7976-2:2002) |

APPLICATION INFORMATION

| | | | |
|-------------|---|--|---|
| Consumption | Sikafloor® MultiDur ES-23 ECC HK (~ 2.6–3.0 mm) | | |
| | Coating System | Product | Consumption |
| | Primer | SikaRepair® EpoCem Modul HC | ~ 0.3kg/m ² |
| | Moisture barrier & self levelling | Sikafloor®-81 EpoCem® New HC | 2.25 kg/m ² /mm per coat @ 2 coats |
| | Colour coat | Sikafloor®-264 Optional : 2 % pbw of "Sika® Ex-tender T" | ~ 0.3 kg/m ² |
| | Top coat | Sikafloor®-315 | ~ 0.128 kg/m ² |

| | |
|-------------------------|--|
| 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. |

Waiting Time / Overcoating

Once Sikafloor®-81 EpoCem® New HC is tack free it is possible to apply vapour permeable seal coats. For the application of vapour tight coatings on Sikafloor®-81 EpoCem® New HC, allow the surface moisture to fall below 4%.

Before applying Sikafloor®-264 on Sikafloor®-81 EpoCem® allow:

| Substrate temperature | Minimum | Maximum |
|-----------------------|----------|---------|
| +10 °C | 30 hours | 3 days |
| +20 °C | 24 hours | 2 days |
| +30 °C | 16 hours | 1 day |

Before applying Sikafloor®-315 on Sikafloor®-264:

| Substrate | Minimum | Maximum |
|-----------|----------|---------|
| +10 °C | 30 hours | 4 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 | Skinning | Light Traffic | Full cure |
| | +10 °C | ~ 30 hours | ~ 48 days | ~ 6 days |
| | +20 °C | ~ 16 hours | ~ 24 days | ~ 4 days |
| | +30 °C | ~ 12 hours | ~ 18 days | ~ 3 days |

PRODUCT INFORMATION

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

MAINTENANCE

CLEANING

Refer to the Method Statement Sikafloor®-Cleaning Regime

LIMITATIONS

- Do not apply Sikafloor® MultiDur ES-23 ECC HK on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-23 ECC HK 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®-315 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 adversely affect the finish. For heating use only electric powered warm air blower systems.

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.

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 Material Safety Data Sheet (MSDS) 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. 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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SYSTEM DATA SHEET

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