

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-14

UNICOLOUR EPOXY ROLLER COAT FLOORING SYSTEM

PRODUCT DESCRIPTION

Sikafloor® MultiDur ES-14 is a smooth, coloured, rigid flooring system based on epoxy resins.

USES

Sikafloor® MultiDur ES-14 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

- For concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages
- For production and processing areas, warehouses, car park decks.

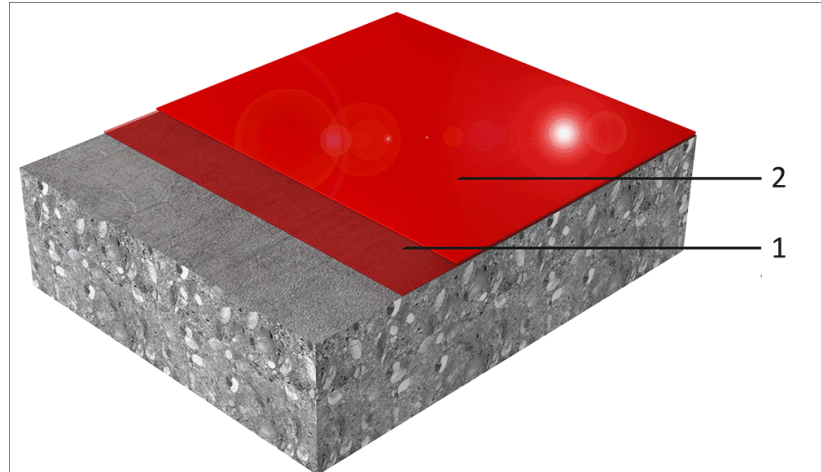
CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Good wear and abrasion resistance
- Easy application
- Liquid proof
- Gloss finish
- Easy cleanability
- Colour options

SYSTEM INFORMATION

System Structure

Sikafloor® MultiDur ES-14



| Layer | Product |
|-------------|---------------------|
| 1. Primer | Sikafloor®-156/-161 |
| 2. Top coat | Sikafloor®-264 |

| | | |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------|
| Composition | Epoxy | |
| Appearance | Gloss finish | |
| Colour | Available in various colour shades | |
| Nominal Thickness | 0.6–0.8 mm | |
| Shore D Hardness | ~76 (7 days / +23 °C) | (DIN 53 505) |
| Abrasion Resistance | ~28 mg (CS 10/1000/1000) (7 days / +23 °C) | (DIN 53109) |
| Tensile Adhesion Strength | > 1.5 N/mm ² (failure in concrete) | (ISO 4624) |
| Chemical Resistance | Please refer to the chemical resistance chart of Sikafloor®- 264 | |
| Thermal Resistance | Exposure* | Dry heat |
| | Permanent | +50 °C |
| | Short-term max. 7 d | +80 °C |
| | Short-term max. 12 h | +100 °C |
| Short-term moist/wet heat* up to +80 °C where exposure is only occasional (steam cleaning etc.) | | |
| *No simultaneous chemical and mechanical exposure. | | |

APPLICATION INFORMATION

| | | | |
|-------------------------|---------------------------------------------------|---------------------------|-------------------------------------------------|
| Consumption | Sikafloor® MultiDur ES-14 system | | |
| | Coating System | Product | Consumption |
| | Primer | 1–2 × Sikafloor®-156/-161 | 1–2 × 0.35–0.55 kg/m ² |
| | Top coat | 1–2 × Sikafloor®-264 | 1–2 × 0.25–0.3 kg/m ² for each layer |
| 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-14, 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®-264 on Sikafloor®-156/-161 allow: | | | |
| | Substrate temperature | Minimum | Maximum | |
| | +10 °C | 24 hours | 3 days | |
| | +20 °C | 12 hours | 2 days | |
| | +30 °C | 8 hours | 1 day | |
| | Before applying Sikafloor®-264 on Sikafloor®-264 allow: | | | |
| | Substrate temperature | Minimum | Maximum | |
| | +10 °C | 30 hours | 3 days | |
| | +20 °C | 24 hours | 2 days | |
| | +30 °C | 16 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 | 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 |
| | Note: Times are approximate and will be affected by changing ambient conditions. | | | |

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

CLEANING

Please refer to the Sikafloor®- Cleaning Regime

FURTHER DOCUMENTS

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

- Do not apply Sikafloor® MultiDur ES-14 on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-14 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®-264 in each area is applied from the same control batch numbers.

LIMITATIONS

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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 IRELAND LIMITED

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



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