

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-20

Smooth unicolour epoxy floor covering

PRODUCT DESCRIPTION

Sikafloor® MultiDur ES-20 is a 2-part epoxy coloured resin based self-smoothing floor finish that can provide a hard wearing, seamless, low maintenance, smooth gloss finish. For medium - heavy wear conditions. Thickness 1.5–3.0 mm. Internal use.

USES

Sikafloor® MultiDur ES-20 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

On concrete and cementitious screeds with normal up to medium heavy wear e.g. clean rooms, storage and assembly halls, maintenance workshops, garages, loading ramps etc.

CHARACTERISTICS / ADVANTAGES

- Seamless and hygienic
- Good chemical and mechanical resistance
- Easy application
- Waterproof
- Gloss finish
- Easy cleanability
- Low maintenance

ENVIRONMENTAL INFORMATION

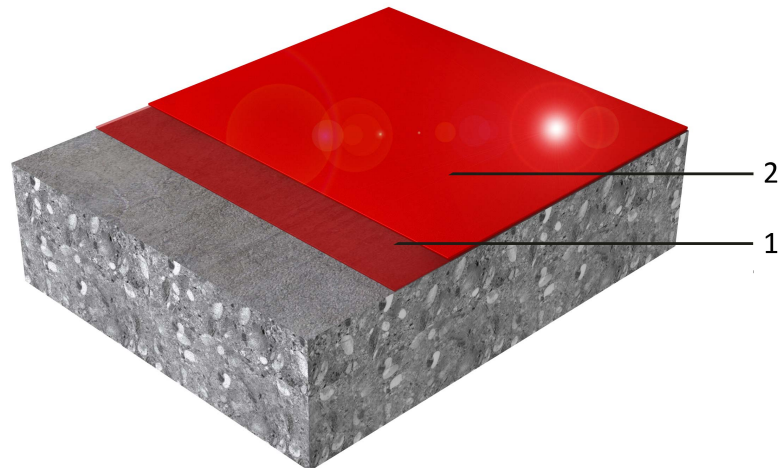
- IBU Environmental Product Declaration (EPD) available - Sikafloor®-263 SL N

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating - Sikafloor®-263 SL N, Sikafloor®-156, Sikafloor®-161
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings - Sikafloor®-263 SL N, Sikafloor®-156, Sikafloor®-161
- Particle emission ISO 14644-1, Sikafloor®-263 SL N, Fraunhofer IPA, CSM Certificate No. SI 1709-952
- Outgassing behavior VOC/SVOC, Sikafloor®-263 SL N, Fraunhofer IPA, CSM Certificate No. SI 1709-952

SYSTEM INFORMATION

System Structure



| Layer | Product |
|-----------------|---------------------|
| 1. Primer | Sikafloor®-150/-151 |
| 2. Wearing Coat | Sikafloor®-263 SL N |

| | |
|--------------------------|---------------------------|
| Composition | Epoxy |
| Appearance | Smooth gloss finish |
| Colour | Available in many colours |
| Nominal thickness | ~1.5–3.0 mm |

TECHNICAL INFORMATION

| Shore D Hardness | ~76 (7 days / +23 °C) | (DIN 53 505) | | | | | | | | |
|----------------------------------|---|---------------------------------|----------|-----------|--------|---------------------|--------|----------------------|---------|--|
| Abrasion Resistance | ~35 mg (CS 10/1000/1000) (7 days / +23 °C) | (DIN 53 109 Taber Abraser Test) | | | | | | | | |
| Resistance to Impact | ~10 Nm (14 days / +23 °C / 50 %) | (ISO 6272) | | | | | | | | |
| Compressive Strength | ~ 50 N/mm ² (Resin filled 1:0.9 with F34 at 28 days / +23 °C) | (EN 196-1) | | | | | | | | |
| Tensile Strength | ~ 20 N/mm ² (Resin filled 1:0.9 with F34 at 28 days / +23 °C) | (EN 196-1) | | | | | | | | |
| Tensile adhesion strength | > 1.5 N/mm ² (failure in concrete) | (ISO 4624) | | | | | | | | |
| Reaction to Fire | Bfl-S1 | (DIN EN 13501-1) | | | | | | | | |
| Chemical Resistance | Resistant to many chemicals. Contact Sika technical service for specific advice. | | | | | | | | | |
| 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> | 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 | | | | | | | | | |
| | 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-20 system (~ 1.5–3.0 mm) | | | |
| | Coating System | Product | Consumption | |
| | Primer | 1 × Sikafloor®-150/-151 | ~ 0.3–0.5 kg/m ² | |
| | Wearing coat | 1 pbw Sikafloor®-263 SL N filled with 1 pbw quartz sand (0.06–0.3 mm) | Maximum 1.9 kg/m ² /mm Resin + quartz sand | |
| 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-20, 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®-263 SL N on Sikafloor®-150/-151 allow: | | | |
| | Substrate Temperature | Minimum | Maximum | |
| | +10 °C | 24 hours | 3 days | |
| | +20 °C | 12 hours | 2 days | |
| | +30 °C | 8 hours | 1 day | |
| 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 |

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 |

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.

FURTHER DOCUMENTS

- 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-20 on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-20 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®-263 SL 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

ies 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

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.

MAINTENANCE

CLEANING

Refer to the Information Manual Sikafloor®- Cleaning Regime

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.

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



System Data Sheet

Sikafloor® MultiDur ES-20
January 2021, Version 02.01
020811900000000075

SikafloorMultiDurES-20-en-IE-(01-2021)-2-1.pdf