

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 may only be used by experienced professionals.

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

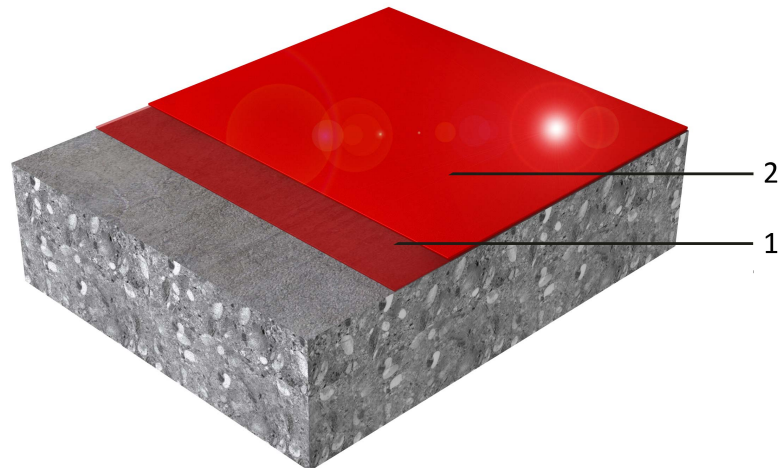
- IBU Environmental Product Declaration (EPD) available - Sikafloor®-263 SL N

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

MAINTENANCE

CLEANING

Refer to the Information Manual Sikafloor®- Cleaning Regime

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 both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

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

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

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



System Data Sheet
Sikafloor® MultiDur ES-20
February 2020, Version 02.02
020811900000000075

SikafloorMultiDurES-20-en-GB-(02-2020)-2-2.pdf