

BUILDING TRUST

SYSTEM DATA SHEET Sikafloor[®] MultiDur ES-43

SMOOTH COLOURED EPOXY FLOOR COVING SYSTEM

PRODUCT DESCRIPTION

Sikafloor[®] MultiDur ES-43 is an epoxy resin based floor coving system that can provide a hard wearing, easy to clean, seamless, chemical resistant, low maintenance smooth matt finish. Thickness 3–10 mm. Internal use.

USES

Sikafloor[®] MultiDur ES-43 may only be used by experienced professionals.

 On concrete and cementitious screeds e.g. corridors, entrances, lobby's, wet areas, healthcare facilities, schools

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Good wear and abrasion resistance
- Easy application
- Waterproof
- Easy cleanability
- Low maintenance

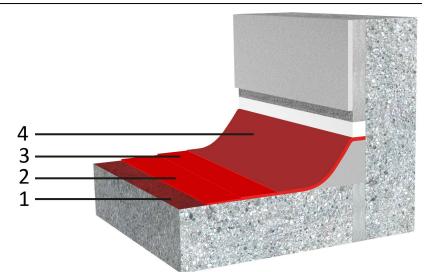
APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete -Coating
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings

System Data Sheet Sikafloor® MultiDur ES-43 February 2020, Version 01.01 02081190000000102

SYSTEM INFORMATION

System Structure



Layer	Product		
1. Primer	Sikafloor [®] -150/-151		
2. Wearing layer	Sikafloor [®] -280		
3. Intermediate layer	Sikafloor [®] -150 + Extender T		
4. Seal / Top coat	Sikafloor®-264 N/-381/-305 W + Ex-		
	tender T		

Composition	Epoxy and polyurethane
Appearance	Smooth matt finish
Colour	Available in many colours
Nominal Thickness	3–10mm

TECHNICAL INFORMATION

Compressive Strength	~80 N/mm² (7 days / +23 °C)	(EN 196-1)	
Flexural Strength	~30 N/mm² (7 days / +23 °C / 50 %)	(EN 196-1)	
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)	(ISO 4624)	
Chemical Resistance	Sikafloor [®] -264 N/-381/-390 N/-305 W provide the chemical resistance. Refer to Product Data Sheet		

APPLICATION INFORMATION

Consumption	Sikafloor [®] MultiDur ES-	Sikafloor® MultiDur ES-43 system (~3–10 mm)			
	Layer	Product	Consumption		
	1. Primer	1 × Sikafloor [®] -150/-151	~0.3–0.5 kg/m²		
	2. Wearing layer	1 × Sikafloor [®] -280	~2.2 kg/m²/mm		
	3. Intermediate layer	1 × Sikafloor®-150 + 1–2	~0.15 kg/m²		
		% % Extender T			
	4. Seal / Top coat	1 × Sikafloor [®] -264 N/-	~0.15–0.2 kg/m²		
		381/-305 W + 0.5 % Ex-			
		tender T			
	Consumption depends on the roughness and absorbency of the substrate. These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.				
Ambient Air Temperature	+10 °C min. / +30 °C ma	ax.			

System Data Sheet Sikafloor® MultiDur ES-43 February 2020, Version 01.01 02081190000000102



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Relative Air Humidity	≤ 80 % max.	≤ 80 % max.					
Dew Point	The substrate ar above dew poin	Beware of condensation. The substrate and uncured applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product.					
Substrate Temperature	+10 °C min. / +3	+10 °C min. / +30 °C max.					
Substrate Moisture Content	≤ 4 % parts by weight Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-meth- od. No rising moisture according to ASTM (Polyethylene-sheet).						
Waiting Time / Overcoating	Before applying	Before applying Sikafloor [®] -280 on Sikafloor [®] -150/-151 allow:					
	Substrate tempe	Substrate temperature			Maximum		
	+10 °C		Minimum 24 hours		4 days		
	+20 °C		14 hours		2 days		
	+30 °C		8 hours		1 day		
	Before applying	Sikafloo	r®-150 on Si	kafloor®-280 a	llow:		
	Substrate tempe		Minimum		Maximum		
	+10 °C				4 days		
	+20 °C	+20 °C			2 days		
	+30 °C	+30 °C			1 day		
	Before applying	Before applying Sikafloor [®] -305 W on Sikafloor [®] -150 allow:					
		Substrate temperature			Maximum		
	+10 °C		45 hours		4 days		
	+20 °C		24 hours		3 days		
	+30 °C	+30 °C			2 days		
		Before applying Sikafloor [®] -264 N/-381 on Sikafloor [®] -150 allow: Substrate temperature Minimum Maximum					
	+10 °C		24 hours		3 days		
	+20 °C				2 days		
	+30 °C				1 day		
	Times are appro	+30 °C <u>8 hours</u> <u>1 day</u> Times are approximate and will be affected by changing ambient condi- tions particularly temperature and relative humidity.					
Applied Product Ready for Use	When the system is sealed with Sikafloor-305 W:						
	Temperature	Foot	traffic	Light traffic	Full cure		
	+10 °C	~30 ł		~48 hours	~6 days		
	+20 °C	~16 h	ours	~24 hours	~4 days		
	+30 °C	~12 k	ours	~18 hours	~3 days		
	When the syste	When the system is sealed with Sikafloor-264 N/-381:					
	Temperature		traffic	Light traffic	Full cure		
	+10 °C	~48 ŀ		~6 days	~10 days		
	+20 °C	~24 hours		~4 days	~7 days		
	+30 °C	0 °C ~18 hours		~2 days ~5 days			
		Times are approximate and will be affected by changing ambient condi- tions particularly temperature and relative humidity.					
PRODUCT INFORMATION							
	Defer to the indi			<u></u>			

Packaging	Refer to the individual Product Data Sheets
Shelf Life	Refer to the individual Product Data Sheets
Storage Conditions	Refer to the individual Product Data Sheets

System Data Sheet Sikafloor® MultiDur ES-43 February 2020, Version 01.01 02081190000000102



MAINTENANCE

CLEANING

Refer to Sika® Method Statement: Sikafloor®-Cleaning Regime

FURTHER DOCUMENTS

- Sika[®] Information Manual: Sikafloor[®]-Cleaning Regime
- Sika[®] Information Manual: Mixing & Applications of Flooring Systems
- Sika[®] Information Manual: Evaluation and Preparation of Surfaces for Flooring Systems
- Individual Product Data Sheets within the flooring system

LIMITATIONS

- Do not apply on substrates with rising moisture.
- After application, the products must be protected from damp, condensation and water for at least 24 hours.
- Sikafloor[®] MultiDur ES-43 mortar screed is not suitable for frequent or permanent contact with water unless sealed.
- For exact colour matching, ensure the quartz sand in each area has the same colour (sand is a natural product and colour differences can occur).
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to indentations in the resin.
- If temporary 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

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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