

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-24

Self levelling high build epoxy floor system - smooth or finely textured

DESCRIPTION

Sikafloor® MultiDur ES-24 is a smooth or finely textured pigmented 2-3 mm floor.

USES

Sikafloor® MultiDur ES-24 may only be used by experienced professionals.

- Maintenance workshop service areas
- Education - trade work areas
- Food and Beverage Facilities - mainly dry packaging areas
- Manufacturing facilities - Printing, Processing
- Cleanroom Pharmaceutical

CHARACTERISTICS / ADVANTAGES

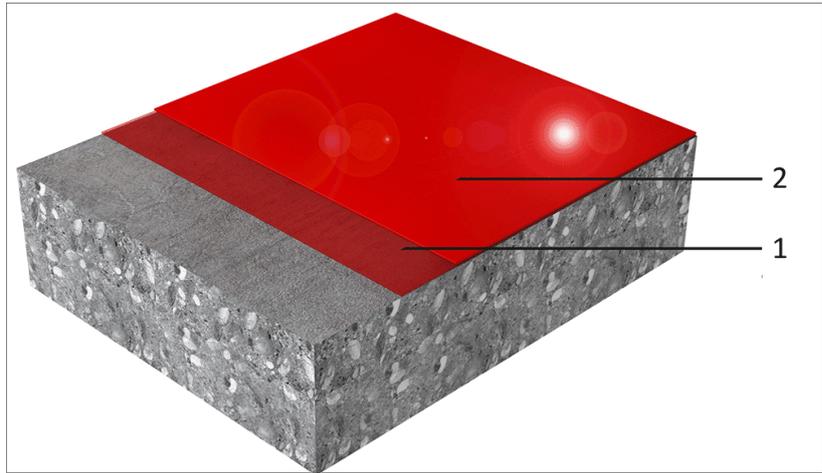
- Good chemical and mechanical resistance
- High wear resistance
- Gloss finish
- Textured - fine finish - easily cleaned
- UV Stable (with top coat Sikafloor 359)

APPROVALS / CERTIFICATES

- Texture - conforms to AS 4586 -2013 P ratings
- VOC Australian Standards ASTM D3960 - Green Star Building Council - V2 IEQ-13 V1 IEQ-1
- APAS Certification 0209/1L (Sikafloor 160/264T)
- Fire - Critical Radient Flux - Pass AS/ISO 9239-1:2003
- Particle emission certificate Sikafloor-263 SL CSM Statement of Qualification – ISO 14644-1, class 5– Report No. SI 0904-480 and GMP class A, Report No. SI 1008-533.
- Outgassing emission certificate Sikafloor-263 SL CSM Statement of Qualification – ISO 14644-8, class 6,5 - Report No. SI 0904-480.
- Good biological Resistance in accordance with ISO 846, CSM Report No. 1008-533
- Fire classification in accordance with EN 13501-1, Report-No. 2007-B-0181/14, MPA Dresden, Germany, February 2007

SYSTEM INFORMATION

System structure



1. Primer	Sikafloor®-161/-160
2. Wearing Coat	Sikafloor®-263 SL
3. Finish texture coat- Optional	Sikafloor 264/264T AU
4. Optional: UV Stable Top Coat	Sikafloor 359

Composition	Epoxy
Appearance	Smooth gloss finish or fine non slip texture
Colour	Available colours in RAL Range on request. Standard Colours : Light Grey 7035, Pebble Grey 7032, Koala Grey N45, Window Grey 7040, Dusty Grey 7037, Oxide Red 3009, Sky Blue 5015, Dahlia Yellow 1033.
Nominal thickness	~2.0 – 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	~ 16 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	Critical Radiant Flux - Pass	AS/ISO 9239.1 AP VS0209 Appendix B
Chemical resistance	Resistant to many chemicals. Contact Sika technical service for specific advice.	
Temperature 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-24 system (~ 2.0–3.0 mm)			
	Coating System	Product	Consumption	
	Primer	1 x Sikafloor®-160/-161	~ 0.25–0.35 kg/m ²	
	Scratch coat (If required)	Sikafloor®-161 filled 1:0.5 filler 503	1 kg/m ²	
	Wearing coat	1 x Sikafloor®-263 SL 2 and 3mm comprising of 1kg of Sikafloor®-264 and 1kg of filler 503	~ 1.9kg/m ² /mm	
	Finish coat - optional	Sikafloor 264/-264T AU	~ 0.20–0.30 kg/m ²	
	UV stable Topcoat	Sikafloor 359 AU	6-8 m ² /litre	
Note: For additional texture, incorporate 60 mesh size aluminium oxide at 5-6% by vol. into finish coat.				
Material 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-24, 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). Use Sikafloor 161 Primer for moisture to 6%pbw. For >6%pbw use Sikafloor EpoCem 81.			
Waiting time to overcoating	Before applying Sikafloor®-263 SL on Sikafloor®-156/-161/-160 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

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.

FURTHER INFORMATION

- Sika® Method Statement Mixing & Applications of Flooring systems
- Sika® Method Statement Evaluation and Preparation of Surfaces for Flooring systems

IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor® MultiDur ES-24 on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-24 must be protected from damp, condensation and water for at least 24 hours.
- If Sikafloor® MultiDur ES-24 is exposed to moisture early in its curing and or the substrate/ambient Temps. are low during post cure, then whitening/blooming may occur. To counter this, apply Sikafloor 264T AU as the final finish coat.
- 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 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.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrate be free of contaminants.

Refer to individual Sikafloor 161/263SL and 264T AU TDS.

25Mpa - Cohesive bond pull off value of >1.5 mpa.

Note; Bond tests should be conducted to confirm the suitability of the substrate.

SUBSTRATE PREPARATION

Surfaces should be clean, dry and free of contaminants.

Prepared surface should produce a cohesive bond pull off value of min.1.5Mpa. and a moisture level of <4%pbw.

All unsound layers of laitance and any existing coatings are to be removed.

Self smoothing layers of Sikafloor® MultiDur ES-24 will not re profile irregularities in the concrete surface.

Profile and defects greater than approx.1.5-2mm will require re-levelling.

This can be achieved using Sikafloor 160/161 mortars and or scratch filling layers.

For application of Sikafloor® MultiDur ES-24 over existing resin finishes, refer to Sika Technical Dept. for direction.

MIXING

Refer to individual Sikafloor 160/161/263SL and 264T AU TDS

APPLICATION

Refer to individual Sikafloor 160/161/263SL and 264T AU TDS

MAINTENANCE

CLEANING

Refer to the Method Statement Sikafloor®- Cleaning Regime

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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