

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-24

High build multi-layer textured epoxy floor with high mechanical resistance

DESCRIPTION

Sikafloor® MultiDur EB-24 is a high build 2-4mm slip resistant, pigmented, epoxy floor with high mechanical resistance for use in a variety of Commercial and Industrial applications

USES

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

- Maintenance workshops
- Automotive workshops - washbays
- Car parks - Multi-storey and underground turning areas and ramps
- Education - Trade workshops
- Amenities /Change -rooms
- Food and Beverage facilities - light to medium duty
- Cleanroom wet areas

CHARACTERISTICS / ADVANTAGES

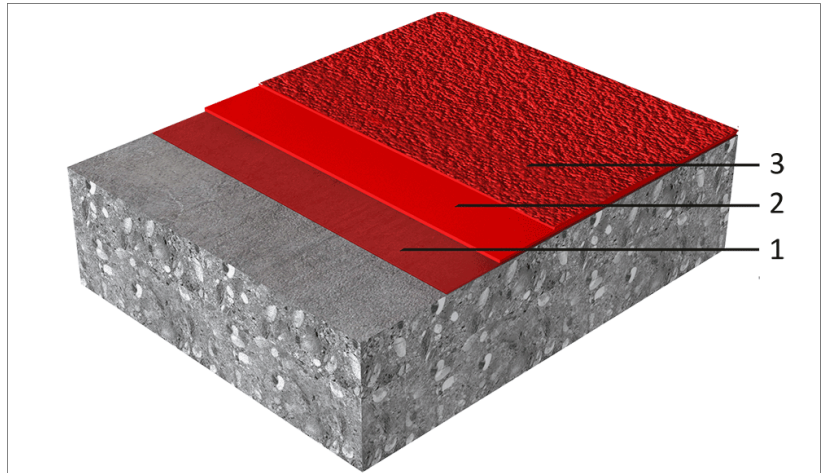
- High wear resistance
- High mechanical resistance
- Good chemical resistance
- Easy application
- Gloss finish
- Slip resistant - variety of textures (Aust. Standard P ratings)

APPROVALS / CERTIFICATES

- Textures - Conforms to AS4586-2013 P Ratings (Refer to Technical Dept.)
- VOC - Australian Standards ASTM D3960 - Green Star Building Council -V2 IEQ-13 V1 IEQ-11
- APAS Approval to APAS 0209/1
- Fire classification test, Bfl-S1 according to DIN EN 13501-1, Report No.2007-B-0181/15, Germany, July 2007

SYSTEM INFORMATION

System structure



Sikafloor® MultiDur EB-24 system (~ 2–4 mm)

1. Primer	Sikafloor®-161/-160
2. Wearing coat & broadcast in excess	Sikafloor®-263 SL or Sikafloor®-264 broadcast with quartz sand in excess
3. Top coats	Sikafloor®-264 x2

Composition	Epoxy
Appearance	Slip resistant, gloss finish
Colour	Available in Colours of 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	~2.0–4.0 mm

TECHNICAL INFORMATION

Reaction to fire	Critical radiant flux - Pass	AS/ISO 9239.1 AP VS0209 Appendix B
Chemical resistance	Refer to the Sikafloor Chemical resistance chart.	
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 (i.e. during steam cleaning etc.)	
	*No simultaneous chemical and mechanical exposure.	
Skid / slip resistance	P3-4 (Quartz Sand 0.3-0.8 mm)	AS 4586-2013
	P4-5 (Quartz Sand 0.7-1.2 mm)	AS 4586-2013
	Note: P Ratings will depend on application of finish coats - Refer to Sika Technical Dept. for direction	

APPLICATION INFORMATION

Consumption	Sikafloor® MultiDur EB-24 system (~ 2–4mm)			
	Coating System	Product	Consumption	
	Primer	1 x Sikafloor® 160/-161	~ 0.25–0.35 kg/m ²	
	Wearing coat	Sikafloor®-263 SL 1 and 2mm Comprising of 1kg of Sikafloor®-264 and 1kg of filler 503	~ 1.9kg/m ² /mm	
	Broadcast in excess	quartz sand 0.4 – 0.7 mm	~ 4 kg/m ²	
Top coats	1–2 x Sikafloor®-264	~ 0.25–0.30 kg/m ² (4.7-5.5m ² /litre)		
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 EB-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/-264 on Sikafloor®-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	
	Before applying Sikafloor®-264 on Sikafloor®-263 SL/-264 allow:			
	Substrate temperature	Minimum	Maximum	
	+10 °C	30 hours	48 hours	
	+20 °C	24 hours	24 hours	
	+30 °C	16 hours	30 hours	
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity For faster intercoat times use Sikafloor Booster - Refer to Sika Technical Dept. for direction.				
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

Please refer to :

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

IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor® MultiDur EB-24 on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur EB-24 must be protected from damp, condensation and water for at least 24 hours.
- If Sikafloor® MultiDur EB-24 is exposed to moisture early in its curing and or the substrate/ambient temps. are low during and post cure, then whitening/blooming may occur. To counter this, apply Sikafloor 264TAU 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®-264 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 should be free of contaminants. Refer to Individual Sikafloor 161/263SL and 264 TDS 25Mpa - Cohesive bond pull off value of >1.5Mpa.
Note: Bond tests should be conducted to confirm the suitability of the substrate.

SUBSTRATE PREPARATION

Surfaces should be clean dry and free of contaminants such as oil grease, curing membranes etc.

Prepared surface should produce a cohesive bond strength 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 EB-24 will not re profile irregularities in the concrete surface.

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

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

For applying Sikafloor® MultiDur EB-24 over existing resin finishes, refer to Sika Technical Dept. for direction

MIXING

Refer to Individual Sikafloor 160 / 263SL and 264 TDS.

APPLICATION

Prime - Sikafloor 160 or 161, work evenly into the substrate at the prescribed rate.

Base Layer - Apply sikafloor 263SL as per the instructions. Take care to apply at the prescribed thickness for an even outcome.

Non slip addition - Introduce broadcast aggregate after approx 10 minutes at 20 degrees. Apply a light even broadcast, then apply the remainder to excess. Care should be taken to throw the broadcast sand high and allow it to fall vertically on the Sikafloor 263SL. Directing the broadcast straight into the product will produce an uneven finish. When hardened, remove the excess broadcast sand thoroughly by brooming and vacuuming.

Finish coats - Apply the first finish coat of Sikafloor 264 by squeegee or roller at the prescribed rate. Work the product into the sand texture.

Apply the final seal coat of Sikafloor 264 at the prescribed rate evenly by roller. Cross rolling at 90 degrees is recommended to achieve an even finish.

Note: Apply the two final coats as per the prescribed coverage rates so that the non slip texture profile is correct.

MAINTENANCE

CLEANING

Please 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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System Data Sheet

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