

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-28 EQ

SMOOTH, ULTRA-LOW VOC/AMC EMISSION EPOXY FLOOR COVERING

DESCRIPTION

Sikafloor® MultiDur ES-28 EQ is a smooth coloured ultra-low VOC/AMC emission rigid system for flooring applications.

USES

Sikafloor® MultiDur ES-28 EQ may only be used by experienced professionals.

- Especially designed for the use in cleanroom environments, where ultra-low VOC/AMC and particle emissions are mandatory, such as optical goods, medical or space industry.
- Also suitable as a hard wearing course for many industries, such as automotive, pharmaceutical, storage facilities and warehouses.

CHARACTERISTICS / ADVANTAGES

- Ultra-low VOC/AMC emissions
- Low particle emissions
- Organo phosphate and phthalate free
- Good chemical and mechanical resistance
- Easy to clean
- Liquid proof

SUSTAINABILITY

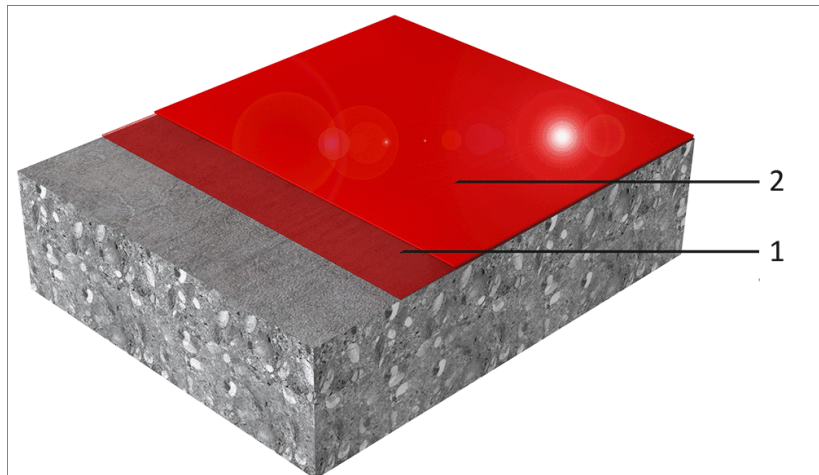
- VOC emission certificate according to AgBB und DIBt approval requirements, Report No.392-2015-00331301_A_EN_02 - Sikafloor®-701, Sikafloor®-269 CR
- Class A+ according to French Regulation on VOC emissions, Test report No. 392-2015-00331301_D - Sikafloor®-701, Sikafloor®-269 CR

APPROVALS / CERTIFICATES

- 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
- Fire Testing DIN EN ISO 9239-1, Sikafloor® 269 CR, MPA Dresden, Test Report 2008-B-3883/06

SYSTEMS

System Structure



Sikafloor® MultiDur ES-28 EQ system (~ 2–3 mm)

1. Primer	Sikafloor®-150/-151/-144/-701
2. Wearing coat	Sikafloor®-269 CR

Composition	Epoxy
Appearance	Smooth gloss finish
Colour	~ RAL 7032, RAL 7035, other colours upon request.
Nominal Thickness	~2–3mm

TECHNICAL INFORMATION

Compressive Strength	~85 N/mm ² (7 days / +23 °C), Resin (filled 1:0.3 with F34*): (EN 13892-2)	
Reaction to Fire	Bfl-S1 (DIN EN 13501-1)	
Temperature Resistance	Exposure*	Dry heat
	Permanent	+50 °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.		

APPLICATION INFORMATION

Consumption	Sikafloor® MultiDur ES-28 EQ system (~ 2–3 mm)		
	Coating System	Product	Consumption
	Primer	1–2 × Sikafloor®-150/-151/-144/-701	1–2 × ~0,3–0,5 kg/m ²
	Wearing coat	Sikafloor®-269 CR filled 1:0.3 with quartz sand 0,1–0,3 mm	1,9 kg/m ² binder + 0,6 kg/m ² quartz sand
Product Temperature	Please refer to the individual product data sheets		
Ambient Air Temperature	~ 80 % r.h. 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	+15 °C min. / +30 °C max.		

Substrate Moisture Content

When performing application work with Sikafloor® MultiDur ES-28 EQ, 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®-269 CR on Sikafloor®-144/-150/-151 allow:

Substrate temperature	Minimum	Maximum
+10 °C	26 hours	4 days
+20 °C	24 hours	2 days
+30 °C	12 hours	1 day

Before applying Sikafloor®-269 CR on Sikafloor®-701 allow:

Substrate temperature	Minimum	Maximum
+10 °C	36 hours	4 days
+20 °C	24 hours	2 days
+30 °C	12 hours	30 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Applied Product Ready for Use

Temperature	Foot traffic	Light traffic	Full cure
+10 °C	~ 72 hours	~ 7 days	~ 10 days
+20 °C	~ 48 hours	~ 4 days	~ 7 days
+30 °C	~ 24 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

Please refer to the Method Statement Sikafloor®-Cleaning Regime

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-28 EQ on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-28 EQ 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®-269 CR 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.

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.

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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