

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-14

High build multi - purpose full gloss epoxy coating

DESCRIPTION

Sikafloor® MultiDur ES-14 is a multi-purpose - high build pigmented epoxy coating for Commercial and Industrial applications where a high degree of texture is not required

USES

Sikafloor® MultiDur ES-14 may only be used by experienced professionals.

- Production and process areas - dry
- Warhouses Garages
- Car storage facilities
- Aeronautical Manufacturing
- Cleanroom - Pharmaceutical

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Good wear and abrasion resistance
- Easy application
- Liquid proof
- Gloss finish
- Easy cleanability
- Colour options

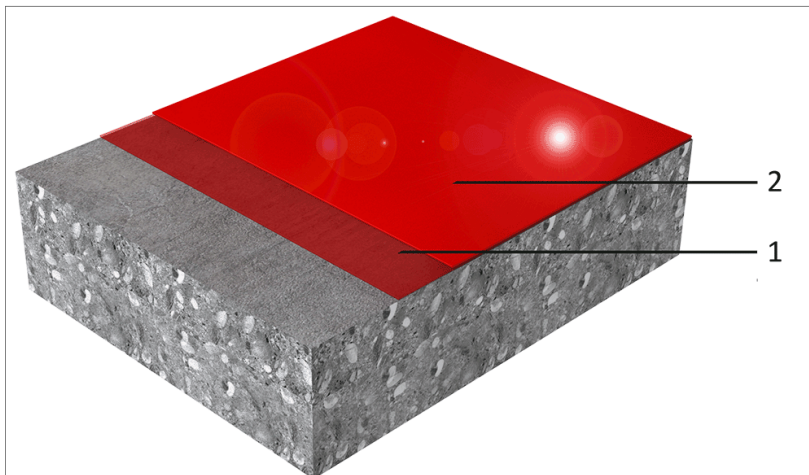
APPROVALS / CERTIFICATES

- Textures - Conforms to AS 4586-2013 P1 Rating
- VOC - Australian Standards ASTM D3960 Green Star Building Council V2 IEQ -13 V1 IEQ-11
- Fire Classification Australia - Critical Radiant Flux - Pass AS/ISO 9239-1 APVS 0209 Appendix B

SYSTEM INFORMATION

System structure

Sikafloor® MultiDur ES-14



| Layer | Product |
|--------------|---------------------|
| 1. Primer | Sikafloor®-161/-160 |
| 2. Top coats | Sikafloor®-264 |

| | |
|-------------------|--|
| Composition | Epoxy |
| Appearance | 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 | 0.6–0.8 mm |

TECHNICAL INFORMATION

| | | |
|---------------------------|---|-----------------|
| Shore D Hardness | ~76 (7 days / +23 °C) | (DIN 53 505) |
| Abrasion resistance | ~28 mg (CS 10/1000/1000) (7 days / +23 °C) | (DIN 53109) |
| Tensile adhesion strength | > 1.5 N/mm ² (failure in concrete) | (ISO 4624) |
| Chemical resistance | Please refer to the chemical resistance chart of Sikafloor®- 264 | |
| 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-14 system

| Coating System | Product | Consumption |
|----------------|---------------------------|---|
| Primer | 1–2 × Sikafloor®-161/-160 | 1–2 × 0.35–0.55 kg/m ² (5-6m ² Per L) |
| Top coat | 1–2 × Sikafloor®-264 | 1–2 × 0.25–0.3 kg/m ² (4-6m ² Per L)for each layer |

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-14, 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 81 EpoCem.

Waiting time to overcoating

Before applying Sikafloor®-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®-264 allow:

| Substrate temperature | Minimum | Maximum |
|-----------------------|----------|---------|
| +10 °C | 30 hours | 3 days |
| +20 °C | 24 hours | 2 days |
| +30 °C | 16 hours | 1 day |

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 | ~ 6 days | ~ 10 days |
| +20 °C | ~ 24 hours | ~ 4 days | ~ 7 days |
| +30 °C | ~ 18 hours | ~ 2 days | ~ 5 days |

Note: Times are approximate and will be affected by changing ambient conditions.

For faster cure and turnaround times use Sikafloor Booster.

Refer to Sika Techncl Dept. for direction

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-14 on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-14 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®-264 in each area is applied from the same control batch numbers.

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April 2023, Version 02.02
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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

For detailed application instructions refer to Sikafloor 160/161 and 264 TDS

SUBSTRATE PREPARATION

Prepare substrate to achieve a pull off value of >1.5mpa.

Any local imperfections should be filled using Sikafloor 160/161 with fillers.

Surface profile should be to CSP2 - approx.0.5mm in overall profile.

Profile should not be sufficient to impact on the final finish.

APPLICATION

Priming - Apply Sikafloor 160 or 161 to the correctly prepared substrate

Base layer - Apply Sikafloor 264 by roller in an even coat.

Finish coats - Apply final coat by roller to achieve an even smooth finish. Choice of roller knapp will slightly vary the finish. Knapp length of between 12 to 15mm is recommended. Cross rolling at 90 degrees is also recommended to achieve an even finish.

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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