

SYSTEM DATA SHEET

Sikafloor® MultiDur WS-12

WATER-BASED EPOXY, SMOOTH FLOOR COATING SYSTEM

DESCRIPTION

Sikafloor® MultiDur WS-12 is a 2-part, water-based, epoxy resin, smooth floor coating system.

USES

Industrial resin flooring on cementitious substrates for:

- Normal up to medium heavy wear
- Storage areas
- Assembly halls
- Workshops
- Garages
- Processing areas
- Warehouses
- Multi-storey and underground car park decks
- Interior use only

CHARACTERISTICS / ADVANTAGES

- Thickness 0,2–0,3 mm
- Seamless
- Good chemical and mechanical resistance
- Easy application
- Water vapour permeable
- Water thinnable
- Easy cleanability

SUSTAINABILITY

- VOC emission classification of building materials RTS M1 - Sikafloor® Garage
- VOC emission classification according to AFFSET 2009 - Sikafloor® Garage
- VOC emission certificate according to AgBB und DIBt approval requirements, test report G20255B02 - Sikafloor® Garage
- Class A+ according to French Regulation on VOC emissions, test report G20255A02 - Sikafloor® Garage

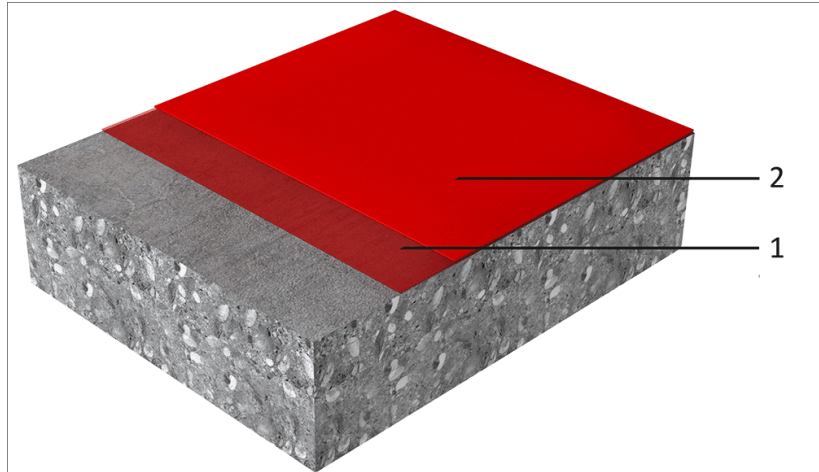
APPROVALS / CERTIFICATES

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

SYSTEMS

System Structure

Sikafloor® MultiDur WS-12 system (~0,2–0,3 mm)



| Layer | Product |
|-------------|-------------------|
| 1. Primer | Sikafloor®-Garage |
| 2. Top coat | Sikafloor®-Garage |

| | |
|--------------------------|---|
| Composition | Water-based epoxy |
| Appearance | Smooth, semi-gloss finish |
| Colour | Available colours: pebble grey (~RAL 7032), pale green (~RAL 6021), oxide red (~RAL 3009) and pure white (~RAL 9010), RAL 7023, RAL7030, RAL 7035, RAL 7038, RAL 7042, RAL 9002 |
| Nominal Thickness | ~0,2–0,3 mm |

TECHNICAL INFORMATION

| Abrasion Resistance | ~56 mg (CS 10/1000/1000) (14 days / +23 °C) (EN ISO 5470-1 Taber Abrader Test) | | | | | | | | | |
|-------------------------------|---|-----------|----------|-----------|--------|---------------------|--------|----------------------|---------|---|
| Chemical Resistance | Resistant to many chemicals. Contact Sika Technical Service for specific information | | | | | | | | | |
| Temperature Resistance | <table border="1"> <thead> <tr> <th>Exposure*</th> <th>Dry heat</th> </tr> </thead> <tbody> <tr> <td>Permanent</td> <td>+60 °C</td> </tr> <tr> <td>Short-term max. 7 d</td> <td>+80 °C</td> </tr> <tr> <td>Short-term max. 12 h</td> <td>+100 °C</td> </tr> </tbody> </table> | Exposure* | Dry heat | Permanent | +60 °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 temporary (i.e. during steam cleaning etc.) *No simultaneous chemical and mechanical exposure. |
| Exposure* | Dry heat | | | | | | | | | |
| Permanent | +60 °C | | | | | | | | | |
| Short-term max. 7 d | +80 °C | | | | | | | | | |
| Short-term max. 12 h | +100 °C | | | | | | | | | |

APPLICATION INFORMATION

| | | | |
|--------------------------------|--|---|------------------------------------|
| Consumption | Sikafloor® MultiDur WS-12 system (~0,2–0,3 mm) | | |
| | Coating System | Product | Consumption |
| | 1. Primer | 1 × Sikafloor®-Garage +5 % water by weight | ~0,2–0,3 kg/m ² |
| | 2. Top coat | 1–2 × Sikafloor®-Garage | ~0,2–0,3 kg/m ² / layer |
| Ambient Air Temperature | +10 °C min. / +30 °C max. | | |
| Relative Air Humidity | < 75 % maximum. Adequate fresh air ventilation must be provided to remove excess moisture during curing. | | |

| | | | |
|--------------------------------------|---|---------------------|----------------------|
| 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 | ≤ 6 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet). | | |
| Waiting Time / Overcoating | Before applying Sikafloor®-Garage on Sikafloor®-Garage allow: | | |
| | Substrate temperature | Minimum | Maximum |
| | +10 °C | 48 hours | 7 days |
| | +20 °C | 20 hours | 5 days |
| | +30 °C | 10 hours | 3 days |
| | Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. When relative air humidity is ≥ 75 % the waiting time is increased by at least 24 hours. | | |
| Applied Product Ready for Use | Temperature | Foot traffic | Light traffic |
| | +10 °C | ~48 hours | ~5 days |
| | +20 °C | ~20 hours | ~3 days |
| | +30 °C | ~10 hours | ~2 days |
| | Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. | | |

PRODUCT INFORMATION

| | |
|---------------------------|---|
| 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 |

MAINTENANCE

CLEANING

Refer to the Sika 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 on substrates with rising moisture.
- After application, all the products must be protected

from damp, condensation and water for at least 24 hours.

- Always ensure adequate fresh air ventilation when using Sikafloor® MultiDur WS-12 in confined spaces to avoid curing problems.
- The “gloss” of the finish can vary with temperature, humidity and the absorbency of the substrate.
- With light colour shades (e.g. yellow or orange) it may be necessary to apply several coats of Sikafloor®-2540 W to achieve full opacity (hiding power). Carry out a pre-trial to confirm.
- Under direct sun radiation there may be some discoloration and colour deviation, this has no influence on the function and performance of the coating.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-2540 W in each area is applied from the same con-

trol batch numbers.

- 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.

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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