

## SYSTEM DATA SHEET

# Sikafloor® MultiDur ES-24 EQ

Smooth unicolour clean room certified epoxy floor covering

## PRODUCT DESCRIPTION

Sikafloor® MultiDur ES-24 EQ is a smooth coloured low VOC/AMC emission rigid system for flooring applications

## USES

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

- Especially designed for the use in cleanroom environment, where low VOC/AMC and particle emissions are mandatory.
- Also suitable as a hard wearing coat for many industries, such as automotive, pharmaceutical, storage facilities and warehouses.
- Suitable for residential areas

## CHARACTERISTICS / ADVANTAGES

- 0 % VOC according to Decopaint Directive 2004/42 EG
- Bishenol A and benzylalcohol free system
- Dodecylphenol free
- Good chemical and mechanical resistance
- Easy to clean
- Liquid proof

## APPROVALS / STANDARDS

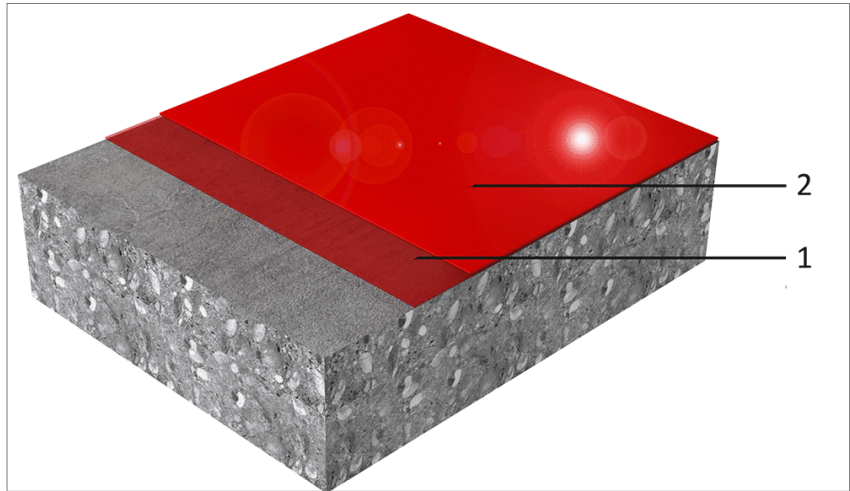
- Eurofins Emission tested according to the AgBB-scheme and guidelines of the DiBt (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology). Sampling, testing and evaluation were performed according to ISO-16000, Report No G18792B.
- Eurofins Emission tested according to French Label, Report No. G18792C.
- Fire classification in accordance with DIN EN 13501-1: 2010, class Bfl-S1, Report-No. KB-Hoch-141428, Germany, November, 2014
- Particle emission certificate Sikafloor-721 CSM Statement of Qualification - ISO 14644-1, class 4 - Report No.SI 1403695
- Outgassing emission certificate Sikafloor-721 CSM Statement of Qualification - ISO 14644-8, class -7.4 - Report No. SI 1403695.
- Excellent biological Resistance in accordance with ISO 846, CSM Report No. SI 1403695.
- Fluorescent test contamination (Riboflavin test) : very good, CSM Statement of Qualification , Report No.SI 1403695

## PRODUCT INFORMATION

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| <b>Packaging</b>          | Please refer to the individual Product Data Sheets |
| <b>Shelf Life</b>         | Please refer to the individual Product Data Sheets |
| <b>Storage Conditions</b> | Please refer to the individual Product Data Sheets |

## SYSTEM INFORMATION

### System Structure



|                 |                |
|-----------------|----------------|
| 1. Primer       | Sikafloor®-701 |
| 2. Wearing Coat | Sikafloor®-721 |

|                                                |                                           |
|------------------------------------------------|-------------------------------------------|
| <b>Composition</b>                             | Epoxy                                     |
| <b>Appearance</b>                              | Smooth gloss finish                       |
| <b>Colour</b>                                  | Almost unlimited choice of colour shades. |
| <b>Nominal Thickness</b>                       | ~1.5–2.0 mm                               |
| <b>Volatile organic compound (VOC) content</b> | 20 g/l (SCAQMD Method 304-91)             |

## TECHNICAL INFORMATION

|                             |                                                                                       |                                 |
|-----------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| <b>Shore D Hardness</b>     | ~77 (14 days / +23 °C)                                                                | (DIN 53 505)                    |
| <b>Abrasion Resistance</b>  | 30 mg (CS 10/1000/1000) (7 days / +23 °C)                                             | (DIN 53 109 Taber Abraser Test) |
| <b>Impact Strength</b>      | ~8 Nm (14 days / +23 °C)                                                              | (ISO 6272)                      |
| <b>Compressive Strength</b> | ~75 N/mm <sup>2</sup> (Mortar, 28 days / +23 °C)                                      | (EN 13892-2)                    |
| <b>Tensile Strength</b>     | ~20 N/mm <sup>2</sup> (Mortar, 14 days / +23 °C)                                      | (EN 13892-2)                    |
| <b>Reaction to Fire</b>     | Bfl-S1                                                                                | (DIN EN 13501-1)                |
| <b>Chemical Resistance</b>  | Resistant to many chemicals. Contact Sika technical service for specific information. |                                 |

|                                                                                                                                                        |                                 |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|
| <b>Thermal Resistance</b>                                                                                                                              | <b>Exposure*</b>                | <b>Dry heat</b> |
|                                                                                                                                                        | Permanent                       | +50 °C          |
|                                                                                                                                                        | Short-term max. 7 d             | +80 °C          |
| Short-term moist/wet heat* up to +80 °C where exposure is only occasional (steam cleaning etc.).<br>*No simultaneous chemical and mechanical exposure. |                                 |                 |
| <b>Microbiological Resistance</b>                                                                                                                      | Excellent biological Resistance | (ISO 846)       |
| <b>Coefficient of Friction</b>                                                                                                                         | $\mu = 0.10$                    | (DIN 51131)     |
| <b>Skid / Slip Resistance</b>                                                                                                                          | R9                              | (DIN 51130)     |

## APPLICATION INFORMATION

|                                      |                                                                                                                                                                                                                                                                                 |                                                  |                                                                                                                                                                             |                  |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Coverage</b>                      | <b>Sikafloor® MultiDur ES-24 EQ system ( ~1.5–2 mm)</b>                                                                                                                                                                                                                         |                                                  |                                                                                                                                                                             |                  |
|                                      | <b>Coating System</b>                                                                                                                                                                                                                                                           | <b>Product</b>                                   | <b>Consumption</b>                                                                                                                                                          |                  |
|                                      | Primer                                                                                                                                                                                                                                                                          | 1 x Sikafloor®-701                               | ~0.3–0.5 kg/m <sup>2</sup>                                                                                                                                                  |                  |
|                                      | Wearing coat                                                                                                                                                                                                                                                                    | Sikafloor®-721 filled with quartz sand 0.1–0.3mm | Maximum 2.5 kg/m <sup>2</sup><br>Binder + quartz sand<br>15–20 °C: 1 : 0.3 pbw<br>(1.9 + 0.6 kg/m <sup>2</sup> )<br>20–30 °C: 1 : 0.4 pbw<br>(1.8 + 0.7 kg/m <sup>2</sup> ) |                  |
| <b>Product Temperature</b>           | Please refer to the individual Product Data Sheet                                                                                                                                                                                                                               |                                                  |                                                                                                                                                                             |                  |
| <b>Ambient Air Temperature</b>       | +10 °C min. / +30 °C max.                                                                                                                                                                                                                                                       |                                                  |                                                                                                                                                                             |                  |
| <b>Relative Air Humidity</b>         | 80 % r.h. max.                                                                                                                                                                                                                                                                  |                                                  |                                                                                                                                                                             |                  |
| <b>Dew Point</b>                     | Beware of condensation!<br>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.                                                                                                            |                                                  |                                                                                                                                                                             |                  |
| <b>Substrate Temperature</b>         | +10 °C min. / +30 °C max.                                                                                                                                                                                                                                                       |                                                  |                                                                                                                                                                             |                  |
| <b>Substrate Moisture Content</b>    | When performing application work with Sikafloor® MultiDur ES-24 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). |                                                  |                                                                                                                                                                             |                  |
| <b>Waiting / Recoat Times</b>        | Before applying Sikafloor®-721 on Sikafloor®-701 allow:                                                                                                                                                                                                                         |                                                  |                                                                                                                                                                             |                  |
|                                      | <b>Substrate temperature</b>                                                                                                                                                                                                                                                    | <b>Minimum</b>                                   | <b>Maximum</b>                                                                                                                                                              |                  |
|                                      | +10 °C                                                                                                                                                                                                                                                                          | 60 hours                                         | 4 days                                                                                                                                                                      |                  |
|                                      | +20 °C                                                                                                                                                                                                                                                                          | 24 hours                                         | 2 days                                                                                                                                                                      |                  |
|                                      | +30 °C                                                                                                                                                                                                                                                                          | 16 hours                                         | 1 day                                                                                                                                                                       |                  |
| <b>Applied Product Ready for Use</b> | <b>Temperature</b>                                                                                                                                                                                                                                                              | <b>Foot traffic</b>                              | <b>Light traffic</b>                                                                                                                                                        | <b>Full cure</b> |
|                                      | +10 °C                                                                                                                                                                                                                                                                          | ~ 72 hours                                       | ~ 6 days                                                                                                                                                                    | ~ 10 days        |
|                                      | +20 °C                                                                                                                                                                                                                                                                          | ~ 24 hours                                       | ~ 4 days                                                                                                                                                                    | ~ 7 days         |
|                                      | +30 °C                                                                                                                                                                                                                                                                          | ~ 18 hours                                       | ~ 2 days                                                                                                                                                                    | ~ 5 days         |

## MAINTENANCE

### CLEANING

Please refer to the Method Statement Sikafloor®-Cleaning Regime

## AVAILABILITY/WARRANTY

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

## LIMITATIONS

- Do not apply Sikafloor® MultiDur ES-24 EQ on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-24 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®-721 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 CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety

Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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### System Data Sheet

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