

## SYSTEM DATA SHEET

# Sikafloor® MultiDur ES-24 ECC MY

Smooth unicolour epoxy floor coating system over epoxy hybrid screed

## DESCRIPTION

Sikafloor® MultiDur ES-24 ECC MY is a smooth coloured rigid system for flooring applications on damp substrates.

## USES

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

Sikafloor® MultiDur ES-24 ECC MY is used as: Self-smoothing system for concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages, loading ramps etc.

## CHARACTERISTICS / ADVANTAGES

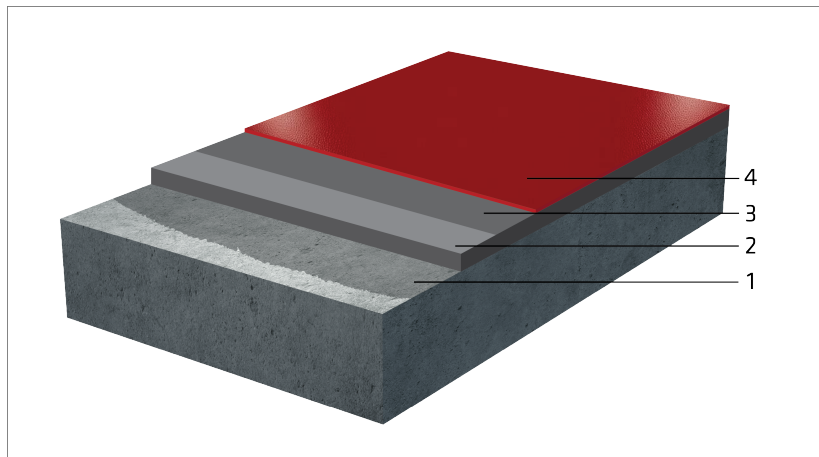
- Good chemical and mechanical resistance
- Easy application
- Liquid proof
- Gloss finish

## CERTIFICATES AND TEST REPORTS

- Particle emission certificate Sikafloor-263 SL CSM Statement of Qualification – ISO 14644-1, class 5– Report No. SI 0904-480 and GMP class A, Report No. SI 1008-533.
- Outgassing emission certificate Sikafloor-263 SL CSM Statement of Qualification – ISO 14644-8, class 6,5 - Report No. SI 0904-480.
- Good biological Resistance in accordance with ISO 846, CSM Report No. 1008-533
- Fire classification in accordance with EN 13501-1, Report-No. 2007-B-0181/14, MPA Dresden, Germany, February 2007

## SYSTEM INFORMATION

### System Structure



| Layer                                                  | Product                                                        |
|--------------------------------------------------------|----------------------------------------------------------------|
| 1. Primer                                              | Sikafloor®-80 EpoCem® Primer                                   |
| 2. Temporary Moisture Barrier (TMB) / Levelling screed | Sikafloor®-81 EpoCem® New HC                                   |
| 3. Sealer coat                                         | Sikafloor®-161 HC / Sikafloor®-264 HC N + 2 % Sika® Extender T |
| 4. Self-smoothing topping                              | Sikafloor®-263 SL HC + Sikadur® 508                            |

|                   |                     |
|-------------------|---------------------|
| Composition       | Epoxy               |
| Appearance        | Smooth gloss finish |
| Nominal Thickness | ~3.5–5.0 mm         |

## TECHNICAL INFORMATION

|                                                    |                                                                                                  |                                 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------|
| Shore D Hardness                                   | ~76 (7 days / +23 °C)                                                                            | (DIN 53 505)                    |
| Abrasion Resistance                                | ~35 mg (CS 10/1000/1000) (7 days / +23 °C)                                                       | (DIN 53 109 Taber Abraser Test) |
| Resistance to Impact                               | ~10 Nm (14 days / +23 °C / 50 %)                                                                 | (ISO 6272)                      |
| Compressive Strength                               | ~ 50 N/mm <sup>2</sup> ( Resin filled 1:0.9 with F34 at 28 days / +23 °C)                        | (EN 196-1)                      |
| Tensile Strength                                   | ~ 16 N/mm <sup>2</sup> ( Resin filled 1:0.9 with F34 at 28 days / +23 °C)                        | (EN 196-1)                      |
| Tensile Adhesion Strength                          | > 1.5 N/mm <sup>2</sup> (failure in concrete)                                                    | (ISO 4624)                      |
| Chemical Resistance                                | Resistant to many chemicals. Contact Sika technical service for specific advice.                 |                                 |
| 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-24 ECC MY system ( ~ 3.5–5.0 mm)                                                                                                                             |                                                                                    |                                                              |
|                         | Coating System                                                                                                                                                                      | Product                                                                            | Consumption                                                  |
|                         | Primer                                                                                                                                                                              | 2 × Sikafloor®-80 EpoCem® Primer                                                   | 0.30–0.50 kg/m <sup>2</sup>                                  |
|                         | Temporary Moisture Barrier (TMB) / Levelling screed                                                                                                                                 | 1 × Sikafloor®-81 EpoCem® New HC                                                   | 2.25 kg/m <sup>2</sup> per mm<br>For TMB min. thickness 2 mm |
|                         | Sealer coat                                                                                                                                                                         | 2 × Sikafloor®-161 HC / Sikafloor®-264 HC N + 2 % Sika® Extender T                 | 0.08–0.10 kg/m <sup>2</sup> per coat                         |
|                         | Wearing coat                                                                                                                                                                        | 1 pbw Sikafloor®-263 SL HC filled with 1 pbw Sikadur® 508 quartz sand (0.1–0.3 mm) | Maximum 1.9 kg/m <sup>2</sup> /mm Binder + quartz sand       |
|                         | Important Note: The consumption figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. |                                                                                    |                                                              |
| Product 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**

Can be applied on green concrete, without any standing water. Although the system can be applied onto green concrete surfaces, it is advised to allow at least 7 days for early shrinkage of concrete to occur in order to prevent concrete shrinkage cracks from appearing on the screed surface.

**Waiting Time / Overcoating**

Before applying Sikafloor®-81 EpoCem® on Sikafloor®-80 EpoCem® Primer allow:

| Substrate temperature | Minimum  | Maximum  |
|-----------------------|----------|----------|
| +10 °C                | 12 hours | 24 hours |
| +20 °C                | 6 hours  | 12 hours |
| +30 °C                | 4 hours  | 6 hours  |

Sikafloor®-81 EpoCem® can be overcoated with vapour impermeable coatings when the surface humidity falls below 4%. Not earlier than :

| Substrate Temperature | Waiting Time |
|-----------------------|--------------|
| +10 °C                | 2 days       |
| +20 °C                | 1 day        |
| +30 °C                | 1 day        |

Before applying Sikafloor®-263 SL on Sikafloor®-161 HC N allow:

| Substrate Temperature | Minimum  | Maximum |
|-----------------------|----------|---------|
| +10 °C                | 24 hours | 3 days  |
| +20 °C                | 12 hours | 2 days  |
| +30 °C                | 8 hours  | 1 day   |

**Applied system 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. 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.

- Applications under extreme conditions (high temperature and low humidity) which can cause fast drying of the products must be avoided as the product does not allow the use of curing compounds.
- Static cracks: Prefill and level with Sikadur® or Sikafloor® epoxy resin.
- Dynamic cracks (> 0.4 mm): To be assessed on site and if necessary apply a stripe coat of elastomeric material or design as a movement joint.

**FURTHER INFORMATION**

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

**IMPORTANT CONSIDERATIONS**

- Always ensure good ventilation when using Sikafloor® MultiDur ES-24 ECC MY in a confined space to remove excess moisture.
- Freshly applied Sikafloor® MultiDur ES-24 ECC MY must be protected from damp, condensation and water for at least 48 hours or until full cure.
- Prevent premature drying by protecting from strong wind and do not expose to direct sun light while fresh.

**ECOLOGY, HEALTH AND SAFETY**

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

**System Data Sheet**

Sikafloor® MultiDur ES-24 ECC MY

September 2026, Version 01.01

020811900000264418

**BUILDING TRUST**



## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt apply a test area first.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes / voids and surface levelling can be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- The concrete or screed substrate has to be primed or levelled in order to achieve an even surface

### SUBSTRATE PREPARATION

- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying, and/or grinding equipment to remove cement laitance and achieve an open textured surface.
- High spots must be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum

### MIXING

Sikafloor® products must be thoroughly mixed using a low speed electric stirrer (300–400 rpm) or other suitable equivalent equipment. For the preparation of mortars use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers should not be used. For more information on mixing, refer to the most recent Product Data Sheet of the respective product.

### APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point are within the limits stated in the Product Data Sheet of the respective product. For more information on application, refer to the most recent Product Data Sheet of the respective product and/or Method Statement of the Product/System, copies of which will be supplied on request.

## MAINTENANCE

### CLEANING

Refer to the Method Statement Sikafloor®- Cleaning Regime

### 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.

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.

### 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.

Sika Kimia Sdn. Bhd.

Lot 689, Nilai Industrial Estate,  
71800 Nilai, Negeri Sembilan D.K.  
Malaysia  
Phone: +606-7991762  
e-mail: info@my.sika.com  
Website: www.sika.com.my



System Data Sheet  
Sikafloor® MultiDur ES-24 ECC MY  
September 2026, Version 01.01  
020811900000264418

SikafloorMultiDurES-24ECCMY-en-MY-(09-2026)-1-1.pdf