BUILDING TRUST

PRODUCT DATA SHEET

# Sikafloor®-2650

Low odour fast curing smooth interior epoxy floor coating

## DESCRIPTION

Sikafloor®-2650 is a 2-part low odour fast curing epoxy coloured roller coating that provides a hard wearing, seamless, low maintenance, smooth gloss finish.

## USES

Sikafloor®-2650 may only be used by experienced professionals.

The Product is used as a:
- Smooth wearing roller coating on concrete and cementitious screed substrates

Please note:
- The Product may only be used for interior applications.

## CHARACTERISTICS / ADVANTAGES

- Fast curing
- Good mechanical resistance
- Good impact resistance
- Good yellowing resistance
- Very good blush resistance
- Low VOC emissions
- Low odour
- Low maintenance

## ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4

## APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material
- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating

## PRODUCT INFORMATION

| | | |
|---|---|---|
| **Chemical Base** | Solvent free epoxy | |
| **Packaging** | Container Part A | 25.5 kg |
| | Container Part B | 4.5 kg |
| | Container Part A + Part B | 30 kg ready to mix unit |
| **Shelf Life** | 12 months from date of production | |

| | |
|---|---|
| **Storage Conditions** | The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.<br>Refer to the current Safety Data Sheet for information on safe handling and storage. |

| | | |
|---|---|---|
| **Appearance / Colour** | Part A | coloured, liquid |
| | Part B | transparent, liquid |
| | Cured appearance | Gloss finish |

All colours are made to order - a colour range is the same as those available in Sikafloor-264.

**Exposure to direct sunlight**

Note: When the product is exposed to direct sunlight, there may be some discolouration and colour variation. This has no influence on the function and performance of the coating.

| | | | |
|---|---|---|---|
| **Density** | Part A | ~1.53 kg/l | (EN ISO 2811-1) |
| | Part B | ~1.00 kg/l | |
| | Mixed Product | ~1.41 kg/l | |

| | |
|---|---|
| **Solid content by weight** | ~100 % |
| **Solid content by volume** | ~100 % |

## TECHNICAL INFORMATION

| | | |
|---|---|---|
| **Tensile Adhesion Strength** | > 1.5 MPa (failure in concrete) | (EN 1542) |

**Service Temperature**

IMPORTANT

**Simultaneous mechanical and chemical strain**

While the Product is exposed to temperatures up to +60 °C, simultaneous mechanical or chemical strain may cause damage to the Product.

1. Do not expose the Product to chemical or mechanical strain at elevated temperatures

## APPLICATION INFORMATION

| | | |
|---|---|---|
| **Mixing Ratio** | Part A : Part B (by weight) | 85 : 15 |

**Sikafloor®-54 Booster**

Note: Add between 2 % and 4 % of Sikafloor®-54 Booster, by weight of the mixed resin, to the Product to decrease the waiting times.

| | | |
|---|---|---|
| **Consumption** | **Function** | **Consumption** |
| | Roller coat for smooth systems | 0.4–0.5 kg/m² |

| | | |
|---|---|---|
| **Product Temperature** | Minimum | +8 °C |
| | Maximum | +23 °C |
| **Ambient Air Temperature** | Minimum | +8 °C |
| | Maximum | +30 °C |
| **Relative Air Humidity** | Maximum | 80 % r.h. |
| | Minimum | 20 % r.h. |

| | |
|---|---|
| **Dew Point** | Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming. |

| | | |
|---|---|---|
| **Substrate Temperature** | Minimum | +8 °C |
| | Maximum | +23 °C |

| | |
|---|---|
| **Substrate Moisture Content** | Refer to the Product data sheets of the individual primer |

**Pot Life**

| Temperature | Without Sika-floor®-54 Booster | With 2 % Sika-floor®-54 Booster | With 4 % Sika-floor®-54 Booster |
|---|---|---|---|
| +8 °C | ~90 minutes | ~75 minutes | ~70 minutes |
| +10 °C | ~90 minutes | ~70 minutes | ~55 minutes |
| +15 °C | ~50 minutes | ~40 minutes | ~35 minutes |
| +23 °C | ~30 minutes | ~15 minutes | - |

IMPORTANT

**Exothermic reaction**

Do not leave the mixed product in its container after the end of the pot life, as the exothermic reaction of the product leads to foaming.

1. At the end of the Product's pot life, fill the container completely with quartz sand to stop the exothermic reaction.

**Applied Product Ready for Use**

WITHOUT

| Temperature | Foot traffic | Light traffic | Full cure |
|---|---|---|---|
| +8 °C | ~11 hours | ~16 hours | ~36 hours |
| +10 °C | ~8 hours | ~14 hours | ~24 hours |
| +15 °C | ~6 hours | ~7 hours | ~18 hours |
| +23 °C | ~4 hours | ~6 hours | ~8 hours |

WITH 2 %

| Temperature | Foot traffic | Light traffic | Full cure |
|---|---|---|---|
| +8 °C | ~10 hours | ~14 hours | ~26 hours |
| +10 °C | ~7 hours | ~10 hours | ~18 hours |
| +15 °C | ~5 hours | ~6 hours | ~12 hours |
| +23 °C | ~3 hours | ~3 hours | ~6 hours |

WITH 4 %

| Temperature | Foot traffic | Light traffic | Full cure |
|---|---|---|---|
| +8 °C | ~9 hours | ~12 hours | ~24 hours |
| +10 °C | ~6 hours | ~8 hours | ~12 hours |
| +15 °C | ~4 hours | ~5 hours | ~8 hours |

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

## 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 DOCUMENTS

Refer to the following method statements:

- Sika Method Statement — Sikafloor® and Sikagard® evaluation and preparation of surfaces
- Sika Method Statement — Sikafloor® mixing and application

## 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

### EQUIPMENT

MIXING EQUIPMENT

- Electric double paddle mixer (>700 W, 300 to 400 rpm)

APPLICATION EQUIPMENT

- Short pile roller

### SUBSTRATE QUALITY

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 25 MPa) with a minimum tensile strength of 1.5 MPa. Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

## MIXING

IMPORTANT
**Higher amounts of Sikafloor®-54 Booster at higher ambient temperatures**
If more than 2 % of Sikafloor®-54 Booster is added at ambient temperatures higher than +15 °C, the exothermic reaction increases and the product will start foaming very quickly.
1. Mix Part A (resin) for ~30 seconds.
2. Add Part B (hardener) to Part A.
3. Mix continuously for 3 minutes, until a uniform mix is achieved.
4. If necessary, gradually add the required amount of Sikafloor®-54 Booster.
5. If additional materials were added, mix for a further 2 minutes until a uniform mix is achieved.
6. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
7. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

## APPLICATION

IMPORTANT
**No application on rising moisture**
Do not apply on substrates with rising moisture.
IMPORTANT
**Protect from moisture**
After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.
IMPORTANT
**Ensuring consistent colour matching**
For consistent colour matching, make sure the Product used in each area is applied from the same batch number.
IMPORTANT
**Temporary heating**
If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.
1. For heating, use only electric powered warm air blower systems.

IMPORTANT
**Pin holes**
If the Product is applied on porous substrates during rising temperatures, pin holes may form from rising air.
1. Apply the Product during falling temperatures.

IMPORTANT
**Closing Pin holes**
If pin holes are present after the Product has cured blistering may occur in the subsequent layer. Close any pin holes using the following steps.
1. Lightly grind the cured surface.
2. Apply a scratch coat consisting of the Product mixed with ~3 % of Sika® Extender T.

ROLLER COATING
1. Pour the mixed Product onto the substrate.
   Note: The consumption is specified in Application Information.
2. Back roll the surface in two directions at right angles with a short pile roller.
   Note: Maintain a "wet edge" during application for a seamless finish.

# 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.

# 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

**Sika (NZ) Limited**
85-91 Patiki Road
Avondale, Auckland 1026
New Zealand
0800 745 269
www.sika.co.nz