

## Sikafloor®-2530 W

### 2-Part Water Based Epoxy Seal Coat

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#### Product Description

**Sikafloor®-2530 W** is a two-part, water dispersed, solvent free, coloured, epoxy resin based coating. Suitable for use in hot and tropical climates.

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#### Uses

- Coloured seal coat for concrete, cement screeds, broadcast systems and epoxy mortars
- Can be subjected to normal up to medium heavy mechanical and chemical loading
- For production areas, warehouses, car park decks, garages, etc.

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#### Characteristics / Advantages

- Good chemical and mechanical resistance
- Water vapour permeable
- Solvent free
- Water dilutable
- Odourless
- Easy application

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#### Tests

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##### Approval / Standards

Conforms to the requirements for physiological harmlessness according to the 47<sup>th</sup> notification of the Federal Health Office, Report No. P 1777-1, Polymer Institute, Germany.  
Conforms to the requirements for decontamination ability (BS 4247, IRAS Ltd., St. Helens, UK and to DIN 25 415-1 Report No. 35156, Forschungszentrum Jülich, Germany.  
Conforms to the requirements of DIN 4101-1/14 for Class B1 (combustibility classification for floorings), Report-No. 16-904136000a, FMPA Stuttgart, Germany, March 2004.

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#### Product Data

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##### Form

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##### Appearance / Colours

|                    |                     |
|--------------------|---------------------|
| Resin - part A:    | coloured, liquid    |
| Hardener - part B: | transparent, liquid |

Available in various colour shades.

With light colour shades (e.g. yellow or orange) it may be necessary to apply several coats of **Sikafloor®-2530 W** to achieve full opacity (hiding power).

Under direct sun radiation there may be some discolouration and colour deviation, this has no influence on the function and performance of the coating.

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|                  |           |                                       |
|------------------|-----------|---------------------------------------|
| <b>Packaging</b> | Part A:   | 4.2 kg and 12.6 kg containers         |
|                  | Part B:   | 1.8 kg and 5.4 kg containers          |
|                  | Part A+B: | 6.0 kg and 18.0 kg ready to mix units |

## Storage

|   |  |
|---|--|
| <b>Storage Conditions/<br/>Shelf-Life</b> | 12 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from frost. |
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## Technical Data

|                           |                   |                                 |
|---------------------------|-------------------|---------------------------------|
| <b>Chemical Base</b>      | Epoxy, waterborne |                                 |
| <b>Density (at +23°C)</b> | Part A:           | 1.28 kg/lit (DIN EN ISO 2811-1) |
|                           | Part B:           | 1.09 kg/lit                     |
|                           | Mixed Resin:      | 1.22 kg/lit                     |

|                      |                                       |
|----------------------|---------------------------------------|
| <b>Solid Content</b> | ~ 43% (by volume) / ~ 55% (by weight) |
|----------------------|---------------------------------------|

## Mechanical / Physical Properties

|                            |   |
|----------------------------|---|
| <b>Abrasion Resistance</b> | 65 mg (CS 10/1000/1000) (14 days / +23°C) (DIN 53 109 (Taber Abrader Test)) |
|----------------------------|---|

## Resistance

|                            |  |
|----------------------------|--|
| <b>Chemical Resistance</b> | Resistant against many chemicals. Please ask for a detailed chemical resistance table. |
|----------------------------|--|

## Thermal Resistance

| Exposure*              | Dry heat |
|------------------------|----------|
| Permanent              | +50°C    |
| Short-term max. 7 days | +80°C    |
| Short-term max. 8 hrs  | +100°C   |

Short-term moist/wet heat\* up to +80°C where exposure is only occasional (i.e. during steam cleaning etc.)

\*No simultaneous chemical and mechanical exposure.

## System Information

|                         |   |
|-------------------------|---|
| <b>System Structure</b> | <i>Seal coat:</i>   |
|                         | Primer:   |
|                         | Seal coat smooth:   |
|                         | Seal coat textured:   |
|                         | <p>1 x Sikafloor®-156 + 10 wt.-% Thinner C (non absorbent surfaces)<br/> 1 x <b>Sikafloor®-2530 W</b> + 5 wt.-% water (normal absorbent surfaces)<br/> 1 x Sikafloor®-156 (strongly absorbent surfaces)</p> <p>1 - 2 x <b>Sikafloor®-2530 W</b></p> <p>1 - 2 x <b>Sikafloor®-2530 W</b> + 2 wt.-% Extender T</p> <p><i>Seal coat for broadcast systems:</i><br/> 2 x <b>Sikafloor®-2530 W</b></p> <p>Note: For heavier exposure use Sikafloor®-156 for priming and a two-layer coating with <b>Sikafloor®-2530 W</b>.</p> |

## Application Details

### Consumption / Dosage

| Coating System                  | Product   | Consumption   |
|---------------------------------|---|---|
| Primer                          | Sikafloor®-156 + 10 wt.-%<br>Thinner C or Sikafloor®-156 or<br><b>Sikafloor®-2530 W</b> +5% water | 0.3 - 0.5 kg/m <sup>2</sup><br>0.3 - 0.5 kg/m <sup>2</sup><br>0.2 - 0.3 kg/m <sup>2</sup> |
|                                 | 1 - 2 x <b>Sikafloor®-2530 W</b>  | 0.2 - 0.3 kg/m <sup>2</sup> /layer  |
|                                 | 1 - 2 x <b>Sikafloor®-2530 W</b> +<br>2% Extender T   | 0.2 - 0.3 kg/m <sup>2</sup> /layer  |
| Seal coat for broadcast systems | 2 x <b>Sikafloor®-2530 W</b>  | 0.4 - 0.6 kg/m <sup>2</sup>   |

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

### 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.

### Substrate Preparation

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface.  
Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.  
Repairs to 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 up in order to achieve an even surface.  
High spots must be removed by e.g. 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.

### Application Conditions / Limitations

**Substrate Temperature** +10°C min. / +30°C max.

**Ambient Temperature** +10°C min. / +30°C max.

**Substrate Humidity** ≤ 6% pbw moisture content.  
Test method: Sika-Tramex meter or CM - measurement.  
No rising moisture according to ASTM (Polyethylene-sheet).

**Relative Air Humidity** 75% r.h. max., 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.

### Application Instructions

**Mixing** Part A : part B = 70 : 30 (by weight)

**Mixing Time** Prior to mixing stir part A mechanically. When all of part B has been added to part A, continuously mix for 2 minutes until a uniform mix has been achieved.  
To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.  
Over mixing must be avoided to minimize air entrainment.

**Mixing Tools** **Sikafloor®-2530 W** must be mechanically mixed using an electric power stirrer (300 - 400 rpm) or other suitable equipment.

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**Application Method / Tools**

Prior to application, confirm substrate moisture content, r.h. and dew point. If > 6% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.

*Primer:*

Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. When used as a primer always apply by brush.

*Seal coat:*

**Sikafloor®-2530 W** is spread evenly by means of a short pile roller.

A seamless finish can be achieved if a “wet” edge is maintained during application.

**Sikafloor®-2530 W** can also be applied by airless spray (spray pressure ~ 300 bar, nozzles with a diameter of 0.53 mm / 0.021 inch and a spray angle 60°).

Uneven application of the material and resulting differences in the coating layer thicknesses may cause differences in “gloss” of the surface.

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**Cleaning of Tools**

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

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**Potlife**

| Temperature | Time          |
|-------------|---------------|
| +10°C       | ~ 150 minutes |
| +20°C       | ~ 120 minutes |
| +30°C       | ~ 60 minutes  |

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**Waiting Time / Overcoatability**

Before applying **Sikafloor®-2530 W** on Sikafloor®-156 allow:

| Substrate temperature | Minimum  | Maximum |
|-----------------------|----------|---------|
| +10°C                 | 24 hours | 4 days  |
| +20°C                 | 12 hours | 2 days  |
| +30°C                 | 6 hours  | 1 day   |

Before applying **Sikafloor®-2530 W** on **Sikafloor®-2530 W** 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  $\geq 75\%$  the waiting time is increased by at least 24 hours.

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## Notes on Application / Limitations

Do not apply **Sikafloor®-2530 W** on substrates in which significant vapour pressure may occur.

Freshly applied **Sikafloor®-2530 W** should be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on surface with the primer.

Always ensure adequate fresh air ventilation when using **Sikafloor®-2530 W** in confined spaces to avoid curing problems.

The "gloss" of the finish can vary with temperature and the absorbency of the substrate.

### Tools

Recommended Supplier of Tools:

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, [www.polyplan.com](http://www.polyplan.com)

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

For exact colour matching, ensure the **Sikafloor®-2530 W** in each area is applied from the same control batch numbers.

For spray application the use of protective health & safety equipment is mandatory!

## Curing Details

### Applied Product ready for use

| Temperature | Foot traffic | Light traffic | Full cure |
|-------------|--------------|---------------|-----------|
| +10°C       | ~ 48 hours   | ~ 5 days      | ~ 10 days |
| +20°C       | ~ 20 hours   | ~ 3 days      | ~ 7 days  |
| +30°C       | ~ 10 hours   | ~ 2 days      | ~ 5 days  |

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

## Cleaning / Maintenance

### Methods

To maintain the appearance of the floor after application, **Sikafloor®-2530 W** must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes.

### Notes

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 Restriction

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 product uses.

## Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## EU Regulation 2004/42 VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC Product category IIA / j Type **wb**) is 140 / 140 g/l (Limits 2007 / 2010), for the ready to use product.

The maximum content of **Sikafloor®-2530**, is < 140 g/l VOC for the ready to use product.

## 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 should 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 Gulf B.S.C (c)**  
Bldg. 925, Road 115, Sitra Area 601  
P.O. Box 15776  
Adliya, Kingdom of Bahrain  
TEL.:+973 17738 188  
Fax:+973 17732 476  
E-mail:sika.gulf@bh.sika.com  
Web: <http://www.sika.com.bh>

