

PRODUCT DATA SHEET

Sikafloor[®]-2540 W

2-part low emission water based epoxy coating



PRODUCT DESCRIPTION

Sikafloor-2540 W is a two part, AgBB approved, water dispersed, coloured, epoxy resin based coating for flooring applications.

USES

- Coloured epoxy coating 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.

CHARACTERISTICS / ADVANTAGES

- Low VOC / AMC emissions
- Low particle emissions
- Good chemical and mechanical resistance
- Water vapour permeable
- Water dilutable
- Odourless
- Easy application

USGBC / LEED RATING

Sikafloor-2540W conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC content < 100g/l

TESTS

APPROVAL / STANDARDS

Water based epoxy seal coating according to EN 1504-2: 2004 and EN 13813:2002, DoP 02 08 01 02 024 0 000018 2017, certified by Factory Production Control Body No. 0921, certificate 2017, and provided with the CE-mark

ISEGA Certificate of Conformity 35982 U 13, July 2013

Bfl-s1 fire classification in accordance with EN 13501-1, Report-No. PB-Hoch-130018, Germany, December 2012.

Particle emission certificate Sikafloor-2540 CSM Statement of Qualification – ISO 14644-1, class 4– Report No. SI 1212-624 and GMP class A, Report No. SI 1212-624.

Outgassing emission certificate Sikafloor-2540W: CSM Statement of Qualification – ISO 14644-8, class 9.6 - Report No. SI 1212-624.

Good biological Resistance in accordance with ISO 846, CSM Report No. 1212-624

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. G20152B.

Eurofins Emission tested according to the Emission EC1⁺-scheme, Report No. G19919B

PRODUCT DATA

FORM

COLOURS

Resin-part A: coloured, liquid
Hardener-part B: transparent, liquid
Available in various colour shades.

PACKAGING

Part A: 13kg containers
Part B: 5kg containers
Part A+B: 18kg ready to mix units

STORAGE

STORAGE CONDITIONS / SHELF-LIFE

Twelve (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.

TECHNICAL DATA

CHEMICAL BASE

Epoxy, waterborne

DENSITY

Part A: 1.33kg/l (DIN EN ISO 2811-1)
Part B: 1.09kg/l
Mixed Resin: 1.22kg/l

All Density values at +20°C

SOLID CONTENT

~43% (by volume)/~55% (by weight)

MECHANICAL / PHYSICAL PROPERTIES

RESISTANCE

ABRASION RESISTANCE

63mg (CS 10/1000/1000) (14 days/+23°C) (DIN 53 109 (Taber Abrader Test))

CHEMICAL RESISTANCE

Resistant to many chemicals.
Please ask for a detailed chemical resistance table.

THERMAL RESISTANCE

Exposure:	Dry heat
Permanent	+60°C
Short-term max. 7 d	+80°C
Short-term max. 8 h	+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

SYSTEM STRUCTURE

Multi-purpose roller coating system:

Primer: 1 x Sikafloor-156 + 10 wt.-% Thinner C
(non absorbent surfaces)
1 x Sikafloor-2540 W + 5 wt.-% water
(normal absorbent surfaces)
1 x Sikafloor-156 (strongly absorbent surfaces)

Seal coat smooth: 1 - 2 x Sikafloor-2540 W

Seal coat textured: 1 - 2 x Sikafloor-2540 W + 2 wt.-% Extender T

Note: For heavier exposure use Sikafloor-156/-161 for priming and a two-layer coating with Sikafloor-2540 W.

APPLICATION DETAILS

For general instructions on applications and conditions please consult the General Sikafloor Method Statements for Surface Evaluation & Preparation and for Mixing & Application

SUBSTRATE TEMPERATURE

+10°C MIN / +30°C MAX

AMBIENT TEMPERATURE

+10°C MIN / +30°C MAX

SUBSTRATE MOISTURE CONTENT

≤ 6 % PBW

Test method: Sika-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).

RELATIVE AIR HUMIDITY

< 75 % RH 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.

MIXING RATIO

Part A:Part B =72 : 28

CONSUMPTION / DOSAGE

Coating	Product	Consumption
Primer	Sikafloor-156 / -161 / 10 wt.-% Thinner C or Sikafloor-156 / -161 or Sikafloor-2540 W+5% water	0.3-0.5kg/m ² 0.3-0.5kg/m ² 0.2-0.3kg/m ²
Levelling mortar fine (surface roughness <1 mm)-if required	1 pbw Sikafloor-2540 W + 0.5 pbw Sika Aggregate 508	1.5kg/m ²
Levelling mortar medium (surface roughness up to 2 mm)-if required	1 pbw Sikafloor-2540 W + 1 pbw Sika Aggregate 508	1.8kg/m ²
Seal coat smooth	1-2 Sikafloor-2540 W	0.2-0.3kg/m ² /layer
Seal coat textured	1-2 x Sikafloor-2540 W + 2% Extender T	0.2-0.3kg/m ² /layer
Seal coat for broadcast systems	2 x Sikafloor-2540 W	0.4-0.6kg/m ²

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

POTLIFE

Temperature	Time
+10°C	~120 minutes
+20°C	~90 minutes
+30°C	~45 minutes

WAITING TIME / OVERCOATING

Before applying Sikafloor-2540 W on Sikafloor-156/-161 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-2540 W on Sikafloor-2540 W allow:

Substrate temperature	Minimum	Maximum
+10°C	48 hours	7 days
+20°C	20 hours	6 days
+30°C	10 hours	3 day

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.

NOTES ON APPLICATION / LIMITATIONS

Do not apply Sikafloor-2540 W on substrates with rising moisture.

Freshly applied Sikafloor-2540 W should be protected from damp, condensation and water for at least 24 hours.

Always ensure adequate fresh air ventilation when using Sikafloor-2540 W 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).

Under direct sun radiation there may be some discolouration 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 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 CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

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 day	~5 days

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

CLEANING / MAINTENANCE

METHODS

Please refer to Cleaning & Maintenance recommendations for Sikafloor installation.

VALUE BASE

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.

HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations.

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 140g/l (Limit 2010) for the ready to use product. The maximum content of **Sikafloor-2540 W** is < 140g/l VOC for the ready to use product

Sika (NZ) Limited
CONCRETE
PO BOX 19192, Avondale
Auckland 1746
New Zealand
www.sika.co.nz

Phone: 0800 745 269
Fax: 0800 745 232
Mail: info@nz.sika.com

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FLOORING