

PRODUCT DATA SHEET

Sikafloor[®]-240 WN

Coloured self smoothing water based epoxy flooring compound

DESCRIPTION

Sikafloor[®]-240 WN is a 2-part, self-smoothing epoxy flooring compound. It provides a seamless and medium wearing finish. It is suitable for applications and areas which require a higher reaction to fire classification.

USES

Sikafloor[®]-240 WN may only be used by experienced professionals.

The Product can be used as a:

- Primer
- Self-smoothing finish coat
- Base coat in broadcast flooring systems

The Product can be used on the following substrates:

- Concrete
- Cementitious screeds
- Magnesite screeds
- Anhydrite screed

Please note:

- The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Reduces the risk of substrate moisture related problems
- Accelerates the flooring finishing process
- Low VOC emissions
- Can be installed on damp and wet substrates
- Low odour during application

SUSTAINABILITY

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization — Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization — Material Ingredients
- Conformity with LEED v4 EQc 2: Low-Emitting Materials
- IBU Environmental Product Declaration (EPD) available
- VOC emission certificate according to AgBB und DIBt approval requirements
- VOC emission classification of building materials RTS M1
- Class A+ according to French Regulation on VOC emissions

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 13813:2002 — Synthetic resin screed material and floor screeds — Screed material
- CE Marking and Declaration of Performance to EN 1504-2:2004 — Products and systems for the repair and protection of concrete structures — Part 2: Surface protection systems for concrete — Coating

PRODUCT INFORMATION

Chemical base	Water based solvent free epoxy		
Packaging	Container Part A	21.5 kg container	
	Container Part B	3.5 kg container	
	Container Part A+ Part B	25 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. Refer to current Safety Data Sheet for information on safe handling and storage.		
Appearance / Colour	Final floor finish colour	RAL 1001, 7032, 7001, 7035, 7042, 7036, 9010	
	Note: The stated colours refer to the mixed product (Part A + Part B), without the aggregates. Other colours on request. Applied colours selected from colour charts will be approximate. 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	~2.6 kg/l	(EN ISO 2811-1)
	Part B	~1.1 kg/l	
	Mixed Product	~2.3 kg/l	

TECHNICAL INFORMATION

Shore D Hardness	~71 (after 7 days at +23 °C) (tested with 80 % quartz sand added)	(EN ISO 868)
Abrasion Resistance	~130 mg (CS10 / 1000 g / 1000 cycles)	(EN ISO 5470-1)
Resistance to Impact	Class I: ≥ 4 Nm (tested with 80 % quartz sand added)	(EN ISO 6272-1)
Compressive Strength	25 N/mm ² (cured 28 days at +23 °C) (tested with 80 % quartz sand added)	(EN 13892-2)
Tensile Adhesion Strength	> 1.5 N/mm ² (failure in concrete)	(EN 1542)
CHEMICAL RESISTANCE	Laboratory defined resistance to many individual chemicals. Before proceeding contact Sika Technical Services for specific information.	

APPLICATION INFORMATION

Mixing ratio	Part A : Part B (by weight)	86 : 14
Consumption	Filled	2.4–2.5 kg/mm/m ² filled with 60 % – 80 % quartz sand
	Unfilled	0.3–0.5 kg/m ²
Note: These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.		
Product Temperature	Minimum	+10 °C
	Maximum	+30 °C

Ambient Air Temperature	Minimum	+10 °C		
	Maximum	+30 °C		
Relative Air Humidity	80 % r.h. max			
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	+10 °C		
	Maximum	+30 °C		
Substrate Moisture Content	Substrate	Measurement method	Moisture content	
	Cementitious substrates	Sika® Tramex moisture metre	≤ 6 %	
	Cementitious substrates	CM-measurement	≤ 4 %	
	Magnesite screeds	CM-measurement	≤ 4 %	
	Anhydrite screeds	CM-measurement	≤ 0.3 %	
No rising moisture (ASTM D4263, polyethylene sheet)				
Pot Life	+10 °C	~60 minutes		
	+20 °C	~30 minutes		
	+30 °C	~15 minutes		
Waiting Time / Overcoating	Substrate temperature	Minimum	Maximum	
	+10 °C	24 hours	3 days	
	+20 °C	15 hours	2 days	
	+30 °C	10 hours	1 day	
Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.				
Applied Product Ready for Use	Temperature	Foot traffic	Light traffic	Full cure
	+10 °C	48 hours	4 days	10 days
	+20 °C	24 hours	48 hours	7 days
	+30 °C	18 hours	36 hours	5 days
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

- Sika® Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika® Method Statement: Mixing and application of flooring systems

IMPORTANT CONSIDERATION

IMPORTANT

Indentations

Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading may lead to indentations in the resin.

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.

APPLICATION INSTRUCTIONS

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

EQUIPMENT

Application equipment

- Pin leveller
- Trowels, including serrated

- Spiked roller
- Mixing equipment
- Electric double paddle mixer (> 700 W, 300 to 400 rpm)

SUBSTRATE QUALITY / PRE-TREATMENT

Mechanical substrate preparation

1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning or planing / scarifying equipment to remove cement laitance.
3. Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.
4. Use products from the Sikafloor®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids.

Contact Sika® Technical Services for additional information on products for levelling and repairing defects.

Treatment of joints and cracks

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

Substrate condition

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1.5 N/mm².

For application onto magnesite or anhydrite screeds, contact Sika Technical Services for additional information.

Substrates can be damp but must be free of standing water (no puddles). They must also be clean and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

MIXING

Primer mixing procedure

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. Mix Part A + B continuously for ~3 minutes until a uniformly coloured mix is achieved.
4. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
5. 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.

Self-smoothing wearing layer mixing procedure

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. While mixing Parts A + B, gradually add the required filler or aggregates.
4. Mix for a further 2 minutes until a uniform mix is achieved.
5. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
6. 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 com-

plete mixing.

APPLICATION

IMPORTANT

Protect from moisture

After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

IMPORTANT

Do not blind the primer.

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.

Self-smoothing wearing layer application

1. Pour the mixed Product onto the substrate. The consumption is specified in Application Information.
2. Apply the Product with one of the tools specified in Equipment.
3. Back roll the surface in two directions at right angles with a spike roller. Maintain a "wet edge" during application to achieve a seamless finish.

Standard primer application

1. Pour the mixed Product onto the substrate. The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a fleece roller or a squeegee
3. Back roll the surface in two directions at right angles with a fleece roller. Maintain a "wet edge" during application to achieve a seamless finish.

CLEANING OF TOOLS

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

MAINTENANCE

To maintain the appearance of the floor after application, Sikafloor®-240 WN 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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

Sika Limited (Vietnam)

Nhon Trach 1 Industrial Zone,
Nhon Trach Dist., Dong Nai Province,
Vietnam

Tel: (84-251) 3560 700

Fax: (84-251) 3560 699

sikavietnam@vn.sika.com



Product Data Sheet

Sikafloor®-240 WN

December 2021, Version 02.01

020811010020000028

Sikafloor-240WN-en-VN-(12-2021)-2-1.pdf