BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-264 N

Epoxy smooth floor coating and seal coat

PRODUCT DESCRIPTION

Sikafloor®-264 N is a 2-part epoxy coloured coating that can provide a hard wearing, seamless, low maintenance, smooth gloss finish or slip resistant finish when broadcast with different aggregate grades.

USES

Sikafloor®-264 N installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

The Product is used as a:
- Self smoothing wearing floor coating on concrete and cementitious substrates
- Smooth wearing roller coating on concrete and cementitious screed substrates
- Slip resistant wearing coating on concrete and cementitious screeds
- Seal coat or Top coat for slip resistant broadcast systems

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

CHARACTERISTICS / ADVANTAGES

- Good mechanical resistance
- Good impact resistance
- Low maintenance
- Seamless and hygienic
- Optional surface profiles slip resistant or smooth

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4
- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- 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 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating
- 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
- Particle emission ISO 14644-1,Sikafloor®-264 N, CSM Statement of Qualification, Fraunhofer IPA Report No. SI 1709-952
- Outgassing behavior VOC/SVOC ISO 14644-8, CSM Statement of Qualification, Fraunhofer IPA, Report No. SI 1709-952
- Indirect contact to foodstuff (EU) 1935/2004, Sikafloor®-264 N Sikafloor®-264 N LO, Fesenius Bericht, Test report No. 3419034-01
- VOC test report French VOC REgulation, eurofins, No.392-2017-00296301_E_EN

PRODUCT INFORMATION

Chemical Base	Solvent free epoxy	
Packaging	Container Part A	23.7 kg
	Container Part B	6.3 kg
	Container Part A + Part B	30 kg ready to mix unit
	Drum Part A	220 kg drum
	Drum Part B	177 kg, 59 kg drum
	Packaging Drum Part A + Part B	1 Drum Part A (220 kg) + 1 drum Part B (59 kg) = 279 kg 3 Drums Part A (220kg) + 1 drum Part B (177 kg) =837 kg
	Refer to the current price list for available packaging variations.	
Shelf Life	24 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 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
	Almost unlimited choice of colours. There is a limited availability of colours when the product is applied as a roller coat and as a self levelling coating. Please consult the local technical department for further information. Note: Colour deviations may occur due to filling with quartz sand or carbon fibre filaments. **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	~ 1.64 kg/l (EN ISO 2811-1)
	Part B	~ 1.00 kg/l
	Mixed Product	~ 1.4 kg/l
Solid content by mass	~100 %	
Solid content by volume	~100 %	

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at 23 °C	~76	(EN ISO 868)
Abrasion Resistance	Cured 7 days at 23 °C	~25 mg (CS 10/1000/1000)	(EN ISO 5470-1)
Compressive Strength	Cured 28 days at +23 °C	~58 N/mm²	(EN 13892-2)
Flexural Strength	Cured 28 days at +23 °C	~28 N/mm²	(EN 13892-2)
Tensile adhesion strength	> 1.5 N/mm² (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)	79 : 21

Consumption

Function	Consumption
Wearing layer (filled)	1.6-1.9 kg/m² per mm
Roller coat	0.3–0.4 kg/m²
Seal coat for broadcast systems	0.6–0.8 kg/m²

Product Temperature

Maximum	+30 °C
Minimum	+10 °C

Ambient Air Temperature

Maximum	+30 °C
Minimum	+10 °C

Relative Air Humidity

Maximum	80 % 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

Maximum	+30 °C
Minimum	+10 °C

Substrate Moisture Content

Please refer to the product datasheet of the individual epoxy primer.

Pot Life

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

+10 °C	~ 50 minutes
+20 °C	~ 25 minutes
+30 °C	~ 15 minutes

Waiting Time / Overcoating

Before applying non-solvented products on Sikafloor®-264 N allow:

Temperature	Minimum	Maximum
+10 °C	~ 30 hours	~ 3 days
+20 °C	~ 24 hours	~ 48 hours
+30 °C	~ 16 hours	~ 24 hours

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	~ 30 hours	~ 6 days	~ 7 days
+20 °C	~ 24 hours	~ 4 days	~ 5 days
+30 °C	~ 16 hours	~ 2 days	~ 3 days

Note: Times apply when the last layer of the system has been applied. Times are affected by changing ambient conditions, particularly temperature and relative humidity.

VALUE BASE

All technical data stated in this 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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

EQUIPMENT

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

APPLICATION EQUIPMENT
- Trowels, including serrated
- Short pile roller
- Textured roller
- Squeegee

SUBSTRATE QUALITY

IMPORTANT
Incorrect treatment of cracks
The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
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 must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1.5 N/mm².
Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

MECHANICAL SUBSTRATE PREPARATION
IMPORTANT
Exposing blow holes and voids
When mechanically preparing the surface, make sure to fully expose blow holes and voids.
1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning or planing / scarifying equipment to remove cement laitance.
3. Before applying thin layer resins, remove high spots by grinding.
4. Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.
5. 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.
SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES
For information on substrate preparation of non-cementitious substrates, contact Sika technical services.

MIXING

COATING 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. IMPORTANT Do not mix excessively. 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. IMPORTANT Do not mix excessivley. 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 complete mixing.

APPLICATION

IMPORTANT

Protect from moisture

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

IMPORTANT

Seal coat adhesion

Sikafloor®-304 W, Sikafloor®-305 W, Sikafloor®-316 or Sikafloor®-2540 W will not gain sufficient adhesion to the Product without proper preparation

1. Abrade the surface with a red or black Scotch Brite pad or sand paper No 120
2. Clean the prepared surface by industrial vacuum prior to applying the seal coat

IMPORTANT

Blinding the primer

Blinding the primer with aggregate can allow rising vapour from within the substrate to cause blisters and other surface defects in the Product.

1. Do not blind the primer with aggregate to form a mechanical key

IMPORTANT

Temporary moisture barrier

If the substrate moisture content measured with the CM-method is > 4% by weight, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®.

1. Contact Sika technical services for more information.

IMPORTANT

No application on rising moisture

Do not apply on substrates with rising moisture.

IMPORTANT

Ensuring consistent colour matching

For consistent colour matching, make sure the Product in each area is applied from the same control batch numbers.

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.

SMOOTH COATING

1. Pour the mixed Product onto the substrate.
   Note: The consumption is specified in Application Information.
2. Apply the product with a short pile roller in two directions at right angles.

SELF-SMOOTHING WEARING LAYER APPLICATION

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

SEAL COAT FOR BROADCAST SURFACES

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

SLIP-RESISTANT BROADCAST LAYER

1. Pour the mixed Product onto the prepared substrate.
2. Apply the Product evenly over the surface with a trowel.
3. Back roll the surface in two directions at right angles with a spike roller.
4. Allow the product to cure for 15 minutes.
   Note: Times are temperature dependant. Times given are for +20 °C.
5. Broadcast the surface with quartz sand or silicon carbide, lightly at first, then to excess.
   Note: The aggregate is dependant on the system build-up. Refer to the relevant System Data Sheet.
6. Allow the surface to become tack free.
7. Remove all loose sand with industrial vacuuming equipment.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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.

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