BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-264 Plus

Epoxy, Smooth (or Slip Resistant) Floor Coating and Seal Coat

PRODUCT DESCRIPTION

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

Sikafloor®-264 Plus 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
- Low odour
- Low VOC emissions
- Seamless and hygienic
- Optional surface profiles: slip resistant or smooth

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.

PRODUCT INFORMATION

Chemical Base	Solvent-free epoxy	
Packaging	Container Part A	24 kg
	Container Part B	6 kg
	Container Part A + Part B	30 kg kit
	Refer to the current price list for available packaging variations.	
Colour	Part A	Coloured
	Part B	Transparent
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 the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.

Density	Mixed Product	1.48 kg/l	(EN ISO 2811-1)
	Part A	1.67 kg/l	
	Part B	1.01 kg/l	

Solid content by mass	100 %
Solid content by volume	100 %

Colour	Part A	Liquid
	Part B	Liquid
	Cured appearance	Gloss finish

TECHNICAL INFORMATION

Shore D Hardness	Cured 14 days at +23 °C	80	(EN ISO 868)
Abrasion Resistance	Cured 7 days at +23 °C	430 mg (H22 / 1000 g / 1000 cycles)	(EN ISO 5470-1)
Resistance to Impact	4 Nm		(EN ISO 6272-1)
	≥ IR4		(EN ISO 6272-1)
Compressive Strength	Cured 28 days at +23 °C	140 MPa	(EN ISO 604)
Flexural Strength	Cured 28 days at +23 °C	45 MPa	(ISO 178)
Tensile adhesion strength	> 1.5 N/mm² (failure in concrete)		(EN 1542)
Reaction to Fire	Class B_{fl}-s1		(EN 13501-1)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	80 : 20

Consumption	**Function**	**Consumption**
	Wearing layer (filled)	1.6 - 1.9 kg/m² per mm
	Roller coat	0.3 - 0.4 kg/m²
	Seal coat or top 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 the 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 Data Sheet of the individual epoxy primer.

Pot Life

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

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

Waiting Time / Overcoating

Before applying non-solvented products on Sikafloor®-264 Plus 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 — Evaluation and Preparation of Surfaces for Flooring Systems.
- 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

SUBSTRATE PREPARATION

IMPORTANT
Reduced service life due to incorrect treatment of cracks
The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
1. For static cracks, ensure the width is suitable for overcoating with Sikafloor®-264 Plus.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sikafloor®-264 Plus.

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 contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
MECHANICAL SUBSTRATE PREPARATION
IMPORTANT
Surface defects due to voids in the substrate
Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.
1. Fully expose blow holes and voids during surface preparation to identify the required repairs.
2. Remove weak cementitious substrates.
3. Prepare cementitious substrates mechanically using abrasive blast cleaning, abrasive planing or scarifying equipment to remove cement laitance.
4. Where thin layer resins are going to be applied, remove high spots by grinding.
5. Remove all dust, loose and friable material from the application surface with an industrial vacuuming equipment.
6. Level the surface or fill cracks, blow holes and voids with products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

For additional information on products for leveling and repairing defects, contact Sika® Technical Services.

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 Parts 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.

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 excessively. 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

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.

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

IMPORTANT

Temporary moisture barrier required if substrate moisture exceeds 4%

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

- Contact Sika® Technical Services for more information.

IMPORTANT

No application on rising moisture

Do not apply on substrates with rising moisture.

IMPORTANT

Inconsistent colouring due to colours from different control batch numbers

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

IMPORTANT

Damaged finish due to heating with fossil fuel heaters

Fossil fuel heaters powered by gas, oil or paraffin produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For temporary heating, use only electrically powered warm air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters.

SMOOTH COATING

1. Pour the mixed Product onto the substrate.
   NOTE: For consumption, refer to 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: For consumption, refer to Application Information.
2. Apply the Product evenly over the surface with a serrated / notched 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: For consumption, refer to 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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