BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-264 N Thixo

2-PART EPOXY HIGH BUILD TEXTURED COATING AND SEAL COAT

PRODUCT DESCRIPTION

Sikafloor®-264 N Thixo is a 2-part epoxy coloured thixotropic resin that can provide a hard wearing, seamless, low maintenance, textured gloss and slip resistant finish. Varying thickness's can be achieved from 1.0–3.0 mm depending on the system used. For medium - heavy wear conditions. Internal use.

USES

Sikafloor®-264 N Thixo may only be used by experienced professionals.

- High build textured coating for concrete and cementitious screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages and loading ramps
- High build textured coating for areas, where slip resistance and easy cleanability is required
- Seal /Top coat for slip resistant textured systems, such as multi-storey and underground car park decks, maintenance hangars and for wet process areas, e.g. beverage and food industry

CHARACTERISTICS / ADVANTAGES

- Seamless
- Good chemical and mechanical resistance
- Easy application
- Waterproof
- Gloss finish
- Easy cleanable slip resistant surface
- Slip resistant surface to suit clients requirements without use of aggregates.
- Low maintenance

APPROVALS / STANDARDS

- CE-marking and Declaration of Performance as Coating for surface protection of concrete according to EN 1504-2:2004, based on certificate of factory production control issued by notified factory production control certification body and type testing.
- CE-marking and Declaration of Performance as Synthetic resin screed material according to EN 13813:2002, based on type testing and factory production control
- Reaction to fire classification according to EN 13501-1, Report-No KB-Hoch-170622, class Bfl-s1, Hoch Fladungen,Germany, May 2017

PRODUCT INFORMATION

Chemical Base	Epoxy

Packaging	Part A	23.7 kg containers
	Part B	6.3 kg containers
	Part A+B	30 kg ready to mix units
Appearance / Colour	Resin - part A:	coloured, liquid
	Hardener - part B	transparent, liquid
	RAL 7032, 7035, 7037 Other colours on request. Under direct sun light there may be some discolouration and colour variation. This has no influence on the function and performance of the coating.	
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.	
Density	Part A	~1.60 kg/l (DIN EN ISO 2811-1)
	Part B	~1.00 kg/l
	Mixed resin	~1.40 kg/l
	All Density values at +23 °C.	
Solid content by weight	~100 %	
Solid content by volume	~100 %	

TECHNICAL INFORMATION

Shore D Hardness	~76 (7 days / +23 °C)	(DIN 53 505)
Compressive Strength	~60 N/mm² (Resin filled 1:0.9 with F34) (28 days / +23 °C)	(EN196-1)
Flexural Strength	~30 N/mm² (Resin filled 1:0.9 with F34) (28 days / +23 °C)	(EN196-1)
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)	(ISO 4624)
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Service for specific information.	
Thermal Resistance	**Exposure***	**Dry heat**
	Permanent	+50 °C
	Short-term max. 7 d	+80 °C
	Short-term max. 12 h	+100 °C
	Short-term moist/wet heat* up to +80 °C where exposure is only occasional (steam cleaning etc.). *No simultaneous chemical and mechanical exposure and only in combination with Sikafloor® systems as a broadcast system with approx. 3 - 4 mm thickness.	

SYSTEM INFORMATION

Systems	Refer to the system data sheet of :	
	Sikafloor® Multidur ET-18	High build textured coloured epoxy floor coating system

APPLICATION INFORMATION

Mixing Ratio	Part A : part B = 79 : 21 (by weight)
Consumption	~ 0.5–0.8 kg/m² These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc. For detailed info, please refer to the System data sheet Sikafloor® Multidur ET-18.

Ambient Air Temperature	+10 °C min. / +30 °C max.
Relative Air Humidity	80 % r.h. 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. Note: Low temperatures and high humidity conditions increase the probability of blooming.
Substrate Temperature	+10 °C min. / +30 °C max.
Substrate Moisture Content	≤ 4% pbw Test method: Sika®-Tramex meter, CM-measurement or oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).

Pot Life

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

Curing Time

Before applying Sikafloor®-264 N Thixo on Sikafloor®-156/-161 /-160 allow:

Substrate temperature	Minimum	Maximum
+10 °C	24 hours	3 days
+20 °C	12 hours	2 days
+30 °C	8 hours	24 hours

Before applying Sikafloor®-264 N Thixo on Sikafloor®-263 SL N/-264 N allow:

Substrate temperature	Minimum	Maximum
+10 °C	30 hours	3 days
+20 °C	24 hours	2 days
+30 °C	16 hours	1 day

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	~72 hours	~6 days	~10 days
+20 °C	~24 hours	~4 days	~7 days
+30 °C	~18 hours	~2 days	~5 days

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a smooth consistent mix. Over mixing must be avoided to minimise air entrainment.

Mixing Tools

Sikafloor®-264 N Thixo must be thoroughly mixed using a low speed electric stirrer (300–400 rpm) or other suitable equipment.

APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point. If > 4 % pbw moisture content, Sikafloor® EpoCem® may be applied

as a T.M.B. (temporary moisture barrier) system.

Primer
Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®-156 /-161 /-160 by brush, roller or squeegee.
Preferred application is by using a squeegee and then backrolling in two directions at right angles to each other.

Levelling
Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor®-156/-161/-160 levelling mortar (see PDS).

High Build Textured Coating
Sikafloor®-264 N Thixo is poured and spread evenly by means of a serrated trowel and then using a textured roller selected to achieve the required finish. Backroller in two directions at right angles to each other.

Seal Coat
Apply seal/top coat of Sikafloor®-264 N Thixo by squeegee at a consumption of 0.6–0.8 kg/m^2. Then using a textured roller selected to achieve the required finish. Back roller in two directions at right angles to each other.

Tools
Recommended supplier of tools:
PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com

CLEANING OF TOOLS

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

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-264 N Thixo 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.

FURTHER DOCUMENTS

Substrate Quality & Preparation
Refer to Sika Information Manual: “EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS”.
Application Instructions
Refer to Sika Information Manual: “MIXING & APPLICATION OF FLOORING SYSTEMS”.
Maintenance
Refer to “Sikafloor®- CLEANING REGIME”.

LIMITATIONS

- Do not apply Sikafloor®-264 N Thixo on substrates with rising moisture.
- Do not blind the primer
- Freshly applied Sikafloor®-264 N Thixo should be protected from damp, condensation and water for at least 24 hours.
- For areas with limited exposure and normally absorbent concrete substrates priming with Sikafloor®-156/-161/-160 is not necessary for roller or textured coating systems.
- For roller / textured coatings: Uneven substrates as well as inclusions of dirt cannot and should not be covered by thin sealer coats. Therefore both substrate and adjacent areas must always be prepared and cleaned thoroughly prior to application.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure Sikafloor®-264 N Thixo 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 indentations in the resin.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems

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.

ECOLOGY, HEALTH AND SAFETY

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

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product.
The maximum content of Sikafloor®-264 N Thixo is < 500 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 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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