Construction

Sikafloor®-264 T

2-part epoxy textured roller and seal coat

Product Description

Sikafloor®-264 T is a thixotropic 2-component solvent free pigmented 100% solids high build epoxy coating for heavy duty and decorative finishes. It can be applied to vertical surfaces (walls & covers) and in addition provide a textured floor coating.

Uses

Sikafloor®-264 T is used on surfaces where cleanliness and hygiene are important.

These include:

- Food processing industry
- Chemical/pharmaceutical industry
- Power stations
- Plastics industry
- Laboratories and rooms subject to radiation
- Clean rooms, exhibition halls and showrooms
- Demonstration areas and training rooms
- Washrooms, cloakrooms

For use on mineral based substrates such as:

- Concrete
- Mortar
- Stone
- Epoxy modified mortars (EpoCem)

Characteristics / Advantages

- High mechanical properties
- Good abrasion resistance
- High durability
- Coloured
- Solvent free
- Jointless
- Easy and fast to apply
- Easily cleaned and maintained
- Waterproof

Product Data

Form

Appearance / Colours

Resin - part A: coloured, liquid
Hardener - part B: transparent, liquid

Extended colour range
Signal White RAL 9003, Beige RAL 1001, Light Grey RAL 7035, Silver Grey RAL 7001, Stone Grey RAL 7030, Dusty Grey RAL 7037, Dahlia Yellow RAL 1033, Ruby Red RAL 3003, Oxide Red RAL 3009, Sky Blue RAL 5015, Reed Green RAL 6013, Emerald Green RAL 6001, Traffic Black RAL 9017

See Sikafloor® Colour Chart

	• All other standard RAL colours are available as per the RAL classics colour chart • Colours are produced as close as possible to production standards • Where colour shade is critical, a site trial is strongly recommended prior to proceeding with the work. • Ensure that finishing and application techniques remain consistent to prevent colour variations • Note that some bright colours may require additional pigment packs to prevent opacity • Under direct sun light there may be some discolouration and colour variation; this has no influence on the function and performance of the coating. Under direct sun light there may be some discolouration and colour variation; this has no influence on the function and performance of the coating.		
Packaging	Part A: Part B: Pigment pack: **Total:**	6.55 kg 2.0 kg 1.15 kg **9.7 kg**	
Storage			
Storage Conditions / Shelf-Life	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.		

Technical Data

Chemical Base	Epoxy		
Density	Part A: Part B: Pigment: Resin mixed: All Density values at +23°C.	1.41 kg/litre approx. 1.00 kg/litre approx. 1.75 kg/litre approx. 1.33 kg/litre approx.	(DIN EN ISO 2811-1)
Yield	**7.3 litres per kit**		
Consumption (Roll on coating)	**4-6m^2/litre/coat (two coats recommended)**		
Consumption (80 mesh Silica Carbide for R10 slip rating into final coat)	Add between 4% to 6% by volume to suit degree of texture within R10 Range Low – 300 mls/kit High – 430 mls/kit		
Solid Content	~ 100% (by volume) / ~ 100% (by weight)		

Mechanical / Physical Properties

Compressive Strength	Resin: ~ 60 N/mm^2 (28 days / +23°C)	(EN 196-1)
Flexural Strength	Resin: ~ 30 N/mm^2 (28 days / +23°C)	(EN 196-1)
Bond Strength	> 1.5 N/mm² (failure in concrete)	(ISO 4624)
Shore D Hardness	76 (7 days / +23°C)	(DIN 53 505)
Abrasion Resistance	70 mg (CS 10/1000/1000) (8 days / +23°C)	(DIN 53 109 (Taber Abrader Test))

Resistance

Chemical Resistance

Testing time: 42 days permanent exposure (Sika Method) Testing Group according to DIBT/medium

1.	3 and 4 Star Petrol	B	8.	Aliphatic aldehyde	A
2.	Jet fuel	A	9.	10% acetic acid 20% acetic acid	A, D B, D
3.	Fuel oil	A	10.	20% sulphuric acid	A, D
4.	Aromatic hydrocarbons	B	11.	20% caustic soda (sodium hydroxide)	A
5.	Alcohols	B	12.	Amine	C
6.	Trichlordethylene	C	13.	Aqueous solutions of organic detergents	A
7.	Esters and ketones	C			

A = Resistant — Minor loss in hardness (0-20% Shore D), no formation of bubbles, no debonding, no/minor swelling.

B = Limited resistance — Moderate loss in hardness (20-40% Shore D), or formation of bubbles, no debonding, visible swelling

C = Not resistant — Considerable loss of hardness (>40% Shore D), or formation of bubbles, or loss of adhesion or partial/complete destruction of the coating

D = Discolouration or loss of gloss

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.

System Information

System Structure

Textured roller coating:
Primer: 1 x Sikafloor®-156
Coating: 1 - 2 x Sikafloor®-264 T

Textured roller coating with improved slip resistance:
Primer: 1 x Sikafloor®-156
Coating: 1-2 x Sikafloor®-264 T + 80 mesh Silica Carbide at 6% by volume

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Primer	Sikafloor® -156	0.35-0.55 kg/m² or 2-3m²/litre
Levelling (optional)	Sikafloor®-156 levelling mortar	Refer to TDS of Sikafloor®-156
Textured roller coating	**1 - 2 x Sikafloor®-264 T**	**0.25 - 0.35 kg/m² or 4-6m²/litre/coat**
Textured roller coating with improved slip resistance	Sikafloor®-264 T + 80 mesh Silica Carbide at 6% by volume	0.25 - 0.35 kg/m² or 4-6m²/litre/coat

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

Substrate Quality

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.

If in doubt, apply a test area first.

Substrate Preparation

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Substrates heavily impregnated with oil must be cleaned by torching or other methods. To check that all traces of oil have been completely removed, sprinkle a few drops of water over the surface. If all the water is quickly absorbed, the surface is sufficiently oil and grease free. If water forms into globules that remain on the surface, further thorough treatment of the substrate is necessary.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.

Repairs to the substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor®, SikaDur® and SikaGard® range of materials.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

High spots must be removed by e.g. grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

Application Conditions / Limitations

Substrate Temperature

+10°C min. / +30°C max.

Ambient Temperature

+10°C min. / +30°C max.

Substrate Moisture Content

≤ 4% pbw moisture content.

Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.

No rising moisture according to ASTM (Polyethylene-sheet).

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.

Application Instructions

Mixing

Part A : B - 3.8 : 1 (wt)
Part A : B - 2.4 : 1 (vol)

Mixing Time

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.

When Part A and B have been mixed, add the Silica Carbide if required and mix for a further 2 minutes until a uniform mix has been achieved.

To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.

Over mixing must be avoided to minimise air entrainment.

Mixing Tools

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

Application Method / Tools

Prior to application, confirm substrate moisture content, r.h. and dew point. If > 4% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.

Levelling:
Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor®-156 levelling mortar (see TDS).

Textured roller coating / Textured roller coating with improved slip resistance:
Sikafloor®-264 T is poured and spread evenly by means of a serrated trowel and then back-rolled crosswise with a textured roller.

Seal coat:
Sikafloor®-264 T is poured and spread evenly by means of a squeegee and then back-rolled crosswise with a textured roller or a short piled roller.

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.

Potlife

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

Waiting Time / Overcoating

Before applying Sikafloor®-264 T on Sikafloor®-156 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®-264 T on Sikafloor®-263 SL 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.

Notes on Application / Limitations

Do not apply Sikafloor®-264 T on substrates with rising moisture.

Do not blind the primer.

Freshly applied Sikafloor®-264 T must be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on the surface with the primer.

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 the Sikafloor®-264 T in each area is applied from the same control batch numbers.

Under certain conditions, underfloor heating 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 CO_2 and H_2O 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	~ 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.

Cleaning / Maintenance

Methods

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

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.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Note

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Product Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

Construction

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