

## PRODUCT DATA SHEET

# Sikafloor®-297 LM

Epoxy coating for line striping and marking on high performance floors (Formerly POLYDECK LM)

### DESCRIPTION

Sikafloor®-297 LM is a three component, epoxy based, high build coating system for line striping and marking over epoxy and polyurethane floors in industrial or car parking application. It has superior chemical and abrasion resistance with excellent adhesion and colour retention.

### USES

Sikafloor®-297 LM may only be used by experienced professionals.

Line striping and marking coating for:

- Sikafloor® epoxy systems
- Sikafloor® polyurethane systems

### CHARACTERISTICS / ADVANTAGES

- Bright, long lasting colours
- Excellent penetration and adhesion
- Easy application
- Reduced recoat times
- Easy cleaning and low maintenance
- Good resistance to chemicals and cleaning solvents
- Low VOC

### PRODUCT INFORMATION

<b>Chemical base</b>	Epoxy resin with selected fillers	
<b>Packaging</b>	Part A+B+C pre-batched	10.5 kg set
	Part A (Coloured Resin)	4.6 kg container
	Part B (Hardener)	1.4 kg container
	Part C (Powder)	4.5 kg bag
<b>Appearance / Colour</b>	Part A (Resin)*	Liquid / coloured
	Part B (Hardener)	Liquid / translucent
	Part C (Quartz powder)	White powder

\*Please contact Sika representative for available colours.

**IMPORTANT**

Colour uniformity cannot be completely guaranteed from batch to batch. Do not mix batch numbers in a single area.

**IMPORTANT**

Applied colours selected from colour charts will be approximate.

**IMPORTANT**

For colour matching: Apply colour sample and confirm selected colour under real lighting conditions.

**IMPORTANT**

The colour of base layer must be chosen carefully, to reflect true colour of final finish required. If required, apply a test area.

**IMPORTANT**

When the product is exposed to direct UV exposure (sun, lamp, skylight, etc.), there may be some discolouration and colour variation. This has no influence on the function and performance of the product. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.

<b>Shelf life</b>	12 months from date of production		
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C.		
<b>Density</b>	~1.44 kg/L (Part A+B+C mixed)	(EN ISO 2811-1)	

**APPLICATION INFORMATION**

<b>Mixing ratio</b>	Part A : Part B : Part C = 4.6 : 1.4 : 4.5 (by weight)			
<b>Layer thickness</b>	~0.2–0.25 mm per coat			
<b>Ambient air temperature</b>	+10 °C min. / +35 °C max.			
<b>Relative air humidity</b>	85 % max.			
<b>Dew point</b>	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. Low temperatures and high humidity conditions increase the probability of blooming.			
<b>Substrate temperature</b>	+10 °C min. / +35 °C max.			
<b>Substrate moisture content</b>	≤ 4 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).			
<b>Pot life</b>	<b>Temperature</b>	<b>Pot life (100 g mass)</b>		
	+20 °C	~12 min		
	+30 °C	~15 min		
<b>Applied product ready for use</b>	<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	+20 °C	~ 24 hours	~ 3 days	~ 7 days
	+30 °C	~ 16 hours	~ 2 days	~ 3 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 & Application of Flooring Systems

**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

## EQUIPMENT

### MIXING EQUIPMENT

- Electric single paddle mixer (300–400 rpm)

### APPLICATION EQUIPMENT

- Flat trowel

## SUBSTRATE QUALITY

- The substrate can be concrete or existing Sika-floor® products applied to concrete.
- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- The substrate must be clean, dry and free of all contaminants such as oil, grease, coatings and surface treatments, etc.

## SUBSTRATE PREPARATION

### IMPORTANT

#### Incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment or diamond grinding machine 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 substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- High spots can be removed by 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.
- For best results, applications over recent Sikafloor® substrates must be carried out within the recommended overcoat time of the product concerned. (See respective PDS for limitations.)
- Grinding or sanding of the Sikafloor® underneath will increase the bond by providing an additional mechanical key effect to add to the chemical bond between the layers when the application is done within the recommended open time.

## MIXING

### IMPORTANT

#### Mix full units only

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 1 minute until a uniformly coloured mix is achieved.
4. After mixing for 1 minute, gradually add Part C while you continue mixing.
5. After combining all parts, mix for an additional 2 minutes, until a uniform mix is achieved.
6. To ensure thorough mixing, pour materials into an-

other container and mix again to achieve a smooth and uniform mix.

7. 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

#### 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. For heating, use only electric powered warm air blower systems.

### IMPORTANT

#### Change of matt finish

The Product applied at different thicknesses can lead to different degrees of matt finish.

1. Pour the mixed Product onto the surface after application of masking tape.
2. Apply the Product evenly over the surface with a flat trowel. Note: A seamless finish can be achieved if a "wet" edge is maintained during application.
3. Remove the masking tape carefully soon after application and before hardening.

## 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 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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Sikafloor-297LM-en-IN-(04-2026)-1-1.pdf

### Product Data Sheet

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April 2026, Version 01.01  
020811020030000048