

# PRODUCT DATA SHEET

# Sikagard® WallCoat T

EPOXY COLOURED WATER BASED TUNNEL COATING



## DESCRIPTION

Sikagard® WallCoat T is a 2-part epoxy coloured resin, chemical resistant, internal tunnel concrete coating. Provides a hard wearing, seamless, low maintenance, easily cleanable, smooth gloss finish.

## USES

Sikagard® WallCoat T may only be used by experienced professionals.

- Internal tunnel concrete protection coating

## CHARACTERISTICS / ADVANTAGES

- Good mechanical and chemical resistance
- High build
- Impervious to liquids
- Easy to clean
- High resistance to carbonation
- Excellent decontamination properties
- Good opacity
- Odourless
- Easy to mix and to apply

## SUSTAINABILITY

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- IBU Environmental Product Declaration (EPD)

## APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating
- Coating for Interior Tunnel Shells ÖVBB Guideline 7/04, Sikagard® WallCoat T, HARTL MPA, Test report No. 20961
- Decontamination of Contaminated Surfaces DIN 25415, Sikagard® WallCoat T, ILF, Test report No. 3-063/2007
- Fire Classification DIN EN 13501-1, Sikagard® WallCoat T, MPA Dresden, Classification report No. 2007-B-0746/1
- Fire testing EN 13501, SikaGard® Wallcoat T, Bodycote, Report No. 2008-2023-K1
- Surface Protection System OS 2 RiLi DafStb, Sikagard® WallCoat T, LPM, Test report No. A-28'544-1
- Vapour Permeability Test Sikadur®-331 W, Polymer Institut, Report No. P 4328-E
- Wet Scrub Resistance DIN EN ISO 11998, Sikagard® WallCoat T, ILF, Test report No. 160770-2

## PRODUCT INFORMATION

<b>Composition</b>	Water based epoxy		
<b>Packaging</b>	Part A	14,60 kg container	270,00 kg drum
	Part B	5,40 kg container	200,00 kg drum
<b>Appearance / Colour</b>	Smooth gloss finish. Standard colours: ~RAL 7031, ~RAL 7035, ~RAL 9003, ~RAL 9010 Other colours on request. Applied colours selected from colour charts will be approximate. It is recommended that applied colour samples must be compared against colour chart colours under the same lighting conditions before final selection.		
<b>Shelf life</b>	Part A	12 months from date of production	
	Part 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 +5 °C and +30 °C. Always refer to packaging.		
<b>Density</b>	Part A:	~1,59 kg/l	(EN ISO 2811-1)
	Part B:	~1,07 kg/l	
	Mixed resin	~1,39 kg/l	
	Values at +23 °C		
<b>Solid content by weight</b>	~64 %		
<b>Solid content by volume</b>	~50 %		

## TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	~94 mg (CS10 /1000 cy/1000 g)	(ASTM D4060) (ISO 9352:2012-4)
<b>Chemical Resistance</b>	Chemical resistant to water and detergents used for the cleaning of tunnels. Contact Sika Technical Services for additional information.	
<b>Temperature Resistance</b>	<b>Exposure</b>	<b>Dry heat</b>
	Permanent	+50 °C
	3 days max	+80 °C
	12 hours max	+100 °C

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : Part B = 73 : 27 (by weight) Part A : Part B = 65 : 35 (by volume)	
<b>Consumption</b>	~0,28 kg/m <sup>2</sup> per layer This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.	
<b>Layer Thickness</b>	~0,15 mm per layer	
<b>Product Temperature</b>	+10 °C min. / +40 °C max.	
<b>Ambient Air Temperature</b>	+10 °C min. / +40 °C max.	
<b>Relative Air Humidity</b>	75 % maximum	
<b>Dew Point</b>	Beware of condensation. The substrate and uncured applied material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the coating finish.	

**Substrate Temperature** +10 °C min. / +35 °C max.

<b>Pot Life</b>	<b>Temperature</b>	<b>Time</b>
	+10 °C	~150 minutes
	+20 °C	~90 minutes
	+30 °C	~60 minutes

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Refer to Sika Method Statement: Surface Evaluation & Preparation.

For existing coatings that maybe suitable for overcoating, contact Sika Technical Services for additional information.

### MIXING

Refer to Sika Method Statement: Mixing & Application

### APPLICATION

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Prior to application, confirm substrate moisture content, relative air humidity, dew point, substrate and air temperatures.

Sikagard® WallCoat T can be applied by brush, roller, airless spraying.

Ensure a continuous, pore free coat covers the substrate.

### CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened material can only be removed mechanically.

## FURTHER INFORMATION

- Sika Method Statement: Surface Evaluation & Preparation.
- Sika Method Statement: Mixing & Application

## IMPORTANT CONSIDERATIONS

- After application, Sikagard® WallCoat T must be protected from damp, condensation and direct water contact (rain) for 24 hours.
- If relative humidity >75 %, over coating time increases by 24 hours.
- The “gloss” of the finish can vary with temperature, humidity and the absorbency of the substrate.
- Ensure good ventilation when applying Sikagard® Wallcoat T in confined areas to ensure full curing.

- For exact colour matching, ensure the Sikagard® WallCoat T in each area is applied from the same control batch numbers

## 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.

## 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, the maximum allowed content of VOC (Product category IIA / j type wb) is 150 / 100 g/l (Limits 2007 / 2010) for the ready to use product.

The maximum content of Sikagard®-Wallcoat T is < 100 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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