

## PRODUCT DATA SHEET

# Sikafloor®-1110

(formerly MTop 1110)

### Water Dispersed Epoxy Resin Coating

#### DESCRIPTION

Sikafloor®-1110 is durable coating based on an advanced water dispersed, two part epoxy resin. It has been specially formulated to provide a durable coating system.

#### USES

Sikafloor®-1110 can be applied on a wide variety of substrates such as concrete, masonry, timber, etc. It is recommended as a protective coating on floors and walls where both high levels of aesthetics and chemical resistance are desired.

It is ideal for:

- Wall coating in pharmaceutical and other areas that must be easy to clean
- Protection of light duty floors against mild acids, alkalis, mineral oils etc
- Warehouse and other light traffic areas
- Electronics industry & clean rooms

#### PRODUCT INFORMATION

<b>Composition</b>	Epoxy	
<b>Packaging</b>	Part A:	5.0 kg/pail
	Part B:	5.0kg/pail
	Part A+B:	10.0kg/set
<b>Shelf life</b>	12 months	
<b>Storage conditions</b>	Protect from direct sunlight and avoid freezing. Stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +15°C and +35°C.	
<b>Appearance and colour</b>	Part A:	Liquid, Colored
	Part B:	Liquid, Amber
Sikafloor®-1110 is available in a range of colors, please inquire Sika.		

#### FEATURES

- Odourless non toxic Resistant to attack by chemicals
- No offensive odour. Non toxic, no ventilation required Lowers maintenance costs
- Water vapor Permeable
- Allows surface to breath preventing build up of vapor pressure
- Non flammable
- Advantage in areas prone to fire hazard
- Tools can be cleaned with water
- Environment friendly and cost saving

#### CERTIFICATES AND TEST REPORTS

Meet to the requirements of GB/T 22374-2018

<b>Density</b>	Part A:	1.40 - 1.45 kg/L	GB/T 6750-2007
	Part B:	~1.03 kg/L	
All Density values at +23°C.			
<b>Volatile organic compound (VOC) content</b>	≤120 g/L		GB/T 22374-2018
<b>Abrasion resistance</b>	≤0.05 g		GB/T 22374-2018
<b>Surface hardness</b>	Pencil hardness:~H		GB/T 22374-2018
<b>Resistance to impact</b>	heavy load(1000g steel ball)		GB/T 22374-2018
<b>Tensile adhesion strength</b>	≥2.0 MPa		GB/T 22374-2018
<b>Skid / slip resistance</b>	≥0.50		GB/T 22374-2018
<b>Service temperature</b>	-20 °C to +60 °C		
<b>Chemical resistance</b>	Resistant to many chemicals. Please ask for a detailed chemical resistance table.		
<b>Systems</b>	Spray or roll coating system:		
	<b>Coating System</b>	<b>Product</b>	
	Primer coat:	1 x Sikafloor®-1110 +10wt.-% water	
	Seal coat:	1 x Sikafloor®-1110	
<b>Mixing ratio</b>	Part A :Part B = 50:50(by weight)		
<b>Consumption</b>	Thin coating system for spray or roll coating construction(For thickness of 0.4mm ):		
	<b>Coating System</b>	<b>Product</b>	<b>Consumption</b>
	Primer coat:	1 x Sikafloor®-1110 +10wt.-% water	0.2 kg/m <sup>2</sup>
	Seal coat:	1 x Sikafloor®-1110	0.2 kg/m <sup>2</sup>
These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc			
<b>Ambient air temperature</b>	+10 °C min. / +35 °C max.		
<b>Relative air humidity</b>	<b>Temperature</b>	<b>humidity</b>	
	+10 °C	75% max.	
	>30 °C	90% 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.		
<b>Substrate moisture content</b>	< 4 % pbw moisture content. Test method: 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>Time</b>	
	+10 °C	120 minutes	
	+20 °C	60 minutes	
	+30 °C	30 minutes	
<b>Applied product ready for use</b>	<b>Temperature</b>	<b>Time</b>	
	+10 °C	~7 days	
	+20 °C	2 days	
	+30 °C	1 day	

## 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.

## IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor®-1110 on substrates in which significant vapour pressure may occur.
- Do not spread sand on the surface of the primer.
- Freshly applied Sikafloor®-1110 must be protected from damp, condensation and water for at least 24 hours.
- Avoid forming water on the primer that has been applied.
- Under certain conditions, underfloor heating or high ambient temperatures 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<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- To maintain color consistency, the same batch should be used in the same area and applied at the same time.

## 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.

### EQUIPMENT

Sikafloor®-1110 must be thoroughly mixed using a low speed electric stirrer (~300 rpm) or other suitable equipment.

### SUBSTRATE QUALITY / PRE-TREATMENT

- Concrete substrates must be sound and of sufficient compressive strength (minimum 30 MPa) with a minimum pull off strength of 1.5 MPa.
- 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.
- 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 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. Unevenness affects film thickness. High spots must be removed by e.g. grinding.
- All dust, loose and friable material must be com-

pletely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

### MIXING

Use a low speed (300rpm) electric drill fitted with a paint mixer or a wing type paddle. Mix one unit of Sikafloor®-1110 Part A with one unit of Sikafloor®-1110 Part B for at least 3 minutes until the mix is uniform and free of streaks.

### APPLICATION

The mix is applied to the pre-treated substrate by spraying, paint-roller or a brush. Depending on the absorbency of the substrate, the Sikafloor®-1110 mixture for the first coat may be diluted with up to 10% of water. Apply the first coat onto the still damp substrate or pre-wet the surface to be coated.

Ensure that there is no free standing water on the surface when application commences.

Following application of Sikafloor®-1110, the coated area must suitably be protected for at least 24 hours after laying, from spillage, dust, insects, small animals, traffic, rain, moisture, etc.

#### Watch Point

Always adhere to the stated pot-life parameters! Sikafloor®-1110 will not always exhibit changes in viscosity due to exotherm. This will mean that it still appears workable. If applied outside the out of the pot life, the color may change.

### CLEANING OF EQUIPMENT

Clean tools and equipment first with paper towels or rags, then wipe using water before the resin system hardens.

## MAINTENANCE INSTRUCTIONS

### CLEANING

It can be cleaned with a neutral cleaner.

## 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.

## 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 recom-

mentations, 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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