BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-1120

(formerly MTop 1120)

Epoxy resin coating for concrete floors and walls

DESCRIPTION

Sikafloor®-1120 is a two-component, solvented, epoxy resin coating specifically designed to provide continuous protection for substrates including concrete and mortar. It may be applied by brush, roller or airless spray.

USES

Sikafloor®-1120 gives good general protection to concrete surfaces in numerous industrial and commercial applications. Specifically, it can be
used to provide a hard wearing, easily cleaned, non-dusting surface.
Sikafloor®-1120 offers good resistance to a wide range of chemicals and aggressive solutions found in general industry, but as in all corrosive situations, a full analysis of operating and exposure conditions is required followed by reference to chemical resistance data, to ensure product suitability.
Sikafloor®-1120 may be used as a top coat for Sikafloor®-1240 floor finishes to provide a brighter more attractive, durable sealed surface.
Sikafloor®-1120 may be applied in the following areas as a substrate seal coat or a wearing surface to epoxy toppings and screeds.
NB This gives examples only and does not constitute a full and comprehensive list.

- Engineering workshops
- Production and assembly lines
- Aircraft maintenance and assembly
- Warehousing
- Laboratories
- Chemical production and processing
- Battery and pump rooms

FEATURES

- Economical and easily applied
- Good wear and abrasion resistance
- Good general chemical resistance
- Easily cleaned, non dusting surface

PRODUCT INFORMATION

Packaging	Sikafloor®-1120 is available in Light Grey, Dusty Grey and Window Grey colors and supplied in 4.5 L kits.
Shelf life	The shelf life is 12 months when stored as below.
Storage conditions	Store under cover out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Density	@ 25°C 1.3 g/cm³
Solid content by mass	67%
Ambient air temperature	60°C
Pot Life	25°C 4 h 40°C 70 min
Tack free time	25°C 30 min 40°C 15 min
Waiting time to overcoating	min. 4 h max. 24 h
Consumption / Yield / Dosage (PRINT single line)	Smooth finish: Primer Coat (diluted) optional 8-10 m²/L/coat Base Coat 6.5-7 m²/L Top Coat 5-6 m²/L Anti-slip finish: Primer Coat (diluted) optional 8-10 m²/L/coat Base Coat 5 m²/L Sikafloor® SR 1 1.5-2 kg/m² Top Coat 5-6 m²/L Coverage will vary according to the nature of the substrate. All calculated usages assume constant thickness on a regular substrate. Failure to achieve the required surface regularity will lead to additional material being used.

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.

LIMITATIONS OF USE

Sikafloor®-1120 is a solvented system. During application, drying and curing, sufficient ventilation must be provided. Do not use where contamination of foodstuffs could occur during initial cure.

ECOLOGY, HEALTH AND SAFETY

As a solvent-based system it is recommended that Sikafloor®-1120 should not be applied where foodstuffs are being used, processed or stored.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Sikafloor®-1120 must be applied to a clean, dry substrate free from laitance, dust, dirt, oil, grease and other contaminants. A clean surface will ensure adhesion between substrate and overlay. The method of surface preparation will be dictated by the size of area to be treated, location and degree of contamination.

SUBSTRATE QUALITY / PRE-TREATMENT

Floors to be coated or overlaid should be at least 28 days old unless water reducing admixtures have been incorporated.
The removal of laitance and contaminants is best achieved by mechanical means such as vacuum recovery shot blasting.All contamination must be removed, and a sound clean substrate exposed. Mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum. In areas of deeply penetrating contamination by
, greases and fats, hot compressed air treatment followed by impregnation with a low viscosity sealer / primer is the recommended
method. Uneven concrete should be levelled to produce a smooth flat surface. For heavy wear situations a suitable repair mortar or epoxy screed from the SikaEmaco® or Sikafloor® ranges should be used.

PRIMING (IF REQUIRED)

Apply a priming coat consisting of Sikafloor®-1120 diluted with 10% (by volume) Xylene, MEK or Acetone thinner, by brush or roller. The primer should be allowed to dry for a minimum of 4 hours and a maximum of 24 hours before overcoating with Sikafloor®-1120.

MIXING

Sikafloor®-1120 is supplied in two components; (PTA) and (PTB). Thoroughly mix the two components using a slow speed drill with a
suitable paddle, making sure to reach the bottom and sides of the can. Continue mixing for 1-2 minutes to produce a fully blended, uniform material. It is important to maintain constant mixing times throughout contracts to ensure consistent colour and to avoid introducing excessive air into the system.

APPLICATION

APPLICATION SMOOTH

Apply 2 coats of Sikafloor®-1120 allowing a minimum of 4 hours between coats, and a maximum 24 hours. Apply the second coat at right angles to the first. To ensure specified performance, a minimum temperature of 10°C should be maintained during the curing period, by the use of additional heating if necessary. Sikafloor®-1120 should be allowed 24 hours at this temperature prior to receiving light traffic. Full chemical cure is
achieved after 7 days.

APPLICATION ANTI-SLIP

To achieve a non-slip surface immediately broadcast Sikafloor® SR 1 onto the wet base coat at the rate of 1.5-2.0 kg/m². Excess aggregate to be removed before application of top coat.
NB: Care must be taken when applying anti-slip system in large areas; ensuring that the anti-slip aggregate is scattered immediately into the wet coating.

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. 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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