BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-392 ECF

(formerly MTop BC 378AS)

Two-part, solvent-free (total solid), self-smoothing, anti-static epoxy floor coating with high resistance to chemicals and crack bridging properties.

PRODUCT DESCRIPTION

Sikafloor®-392 ECF is a two-part, solvent-free, conductive epoxy resin based coating with high resistance to chemicals and crack bridging properties. Sikafloor®-392 ECF fulfills the requirements of the German regulations for the protection of ground water (WHG, Wasserhaushaltsgesetz).

USES

Sikafloor®-392 ECF may only be used by experienced professionals.

Sikafloor®-392 ECF is designed for indoor use as coating for medium duty industrial floors in areas where ground water contaminating chemicals are produced, handled, stored and applied, as well as in secondary containment applications.

CHARACTERISTICS / ADVANTAGES

- high resistance to chemicals
- static crackbridging
- exhibits excellent mechanical strength
- abrasion resistant
- good adhesion to non-porous substrates
- easy to clean and maintain
- easy to apply
- extremely resistant to water, sea and waste water, as well as resistant to a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels.
- conductive according to EN 1081
- yellowing, when used in UV-exposed areas, does not impair the technical properties of the body coat

APPROVALS / STANDARDS

CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material

PRODUCT INFORMATION

Packaging	Sikafloor®-392 ECF is supplied in 30 kg working packs.
Shelf Life	Under the specified storage conditions the material has a shelf life of 18 months.For maximum shelf life under these conditions, see „Best before“ label.
Storage Conditions	Store in original drums under dry conditions and a temperature between 15-25°C. Do not expose to direct sunlight and prevent the temperature from falling below the above mentioned range (crystallisation).
Colour	Sikafloor®-392 ECF is available in a wide range of RAL colours. For more information, please consult your local sales office.

Density	Part A	1,80 g/cm³
	Part B	1,06 g/cm³
	Mixed product	1,55 g/cm³

TECHNICAL INFORMATION

Shore D Hardness	After 28 days at +23°C	65	(EN ISO 868)
Electrostatic Behaviour	Resistance to ground	10^4 - 10^6 ohm	

APPLICATION INFORMATION

Mixing Ratio	4 : 1	
Consumption	min. 2.5 kg/m²	
Ambient Air Temperature	Min.	8°C
	Max.	30°C
Relative Air Humidity	At any temperature	80%
Substrate Temperature	Min.	8°C
	Max.	30°C
Pot Life	At 23°C	15 min
Curing Time	At 20°C	7 d

Waiting Time / Overcoating	Temperature	Minimum	Maximum
	At 12°C	12 h	3 d
	At 23°C	6 h	2 d
	At 30°C	3 h	1 d

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.

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

SUBSTRATE PREPARATION

Sikafloor®-392 ECF must be applied to primed or scratch primed substrate. The substrate must be load bearing, free of loose and brittle particles as well as substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Mechanical surface profiling by grit or shot blasting, high-pressure water jetting, grinding or scabbling (including the necessary post-treatment) are the preferred floor preparation methods and are normally required. But pre-treatment is only necessary when the re-coating interval of the conductive layer has been exceeded. If necessary, the conductive layer must be renewed. After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester i.e. "Herion" at a load rate of 100 N/s). the residual moisture content of the substrate must not exceed 4% (check with e.g. CM device).
The temperature of the substrate must be at least 3K above the current dew point temperature. A damp proof cause must have been properly installed and intact. In addition to this, the respective guidelines for the application of reactive resins on substrates must be observed.

MIXING

Sikafloor®-392 ECF is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both part A and B to a temperature of approximately 15 to 25°C.
Pour the entire contents of part B into the container of part A.
DO NOT MIX BY HAND. Mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the con-

tainer several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. DO NOT WORK OUT OF THE ORIGINAL CONTAINER. After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute.

APPLICATION

After mixing, Sikafloor®-392 ECF is applied to the prepared substrate, using a notched trowel or scraper. The teeth size should be selected according to the thickness of layer required (take care not to exceed max. 2.5 mm). To remove air bubbles, spike roll 5-10 min. after application.
The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum. After application, the material should be protected from direct contact with water for approx. 24h (at 15°C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed. Carbamate has a marked effect of the coating and has to be removed.

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

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 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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