BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-1241

(formerly MTop 1241)

Multi component epoxy screed and repair compound

DESCRIPTION

Sikafloor®-1241 is a multicomponent epoxy screed system designed to provide a durable and abrasion resistant protection for concrete floors. Applied by trowel in thicknesses of 5 mm and above, Sikafloor®-1241 may also be suitable for use as a coving or repair medium.
Suitable for use in hot and tropical climatic conditions.

USES

Sikafloor®-1241 floors have excellent mechanical properties and offer very good abrasion and wear characteristics for areas subjected to heavy traffic.
Sikafloor®-1241 may be used for general repairs in floors subject to heavy, abrasive traffic or for joint arris
repairs and reinforcement of heavily trafficked joints.
Sikafloor®-1241 is non-tainting and is suitable for application
where food is processed and stored.

In continuously wet areas, Sikafloor®-1241 floor offers improved safety by providing a slip resistant finish, through the application of a seal coat from the Sikafloor
® range, incorporating anti-slip aggregate.
Sikafloor®-1241 may be applied in the following areas or industries:

- Loading bays
- Workshops
- Distribution centres
- Laydown areas
- Production halls
- Power installations
- Metal processing and engineering
- Food processing

FEATURES

- High mechanical strength
- Impact and abrasion resistant
- Non-slip, non-skid finish possible
- Non tainting
- Excellent chemical resistance

PRODUCT INFORMATION

Packaging	Standard unit: 42 kg Kit (A+B+C)	
	Part A:Resin	2.02 Kg
	Part B:Hardner	0.87 Kg
	Part C:Filler	2 Bags X 19.555Kg
Shelf life	12 months from date of production	
Storage conditions	Store in original unopened packaging in a cool and dry condition between +5°C and +35°C. Protect from direct sunlight, heat and moisture.	
Density	~2.1 Kg/L (mixed material)	

TECHNICAL INFORMATION

Shore D Hardness	~84			(ASTM D2240)
Abrasion resistance	~50 mg/100 cycle			ASTM C501 - 84
Compressive strength		at 25 °C	at 40 °C	ASTM C109/C109-2b
	After 7 days	≥ 50 N/mm²	≥ 60 N/mm²	
	After 14 days	≥ 60 N/mm²	≥ 70 N/mm²	
Flexural-strength	≥ 28 N/mm²			ASTM C348 - 20

APPLICATION INFORMATION

Consumption	Primer	Sikafloor® P 1240/50	~0.3 - 0.5 kg/m²
	Epoxy mortar screed	Sikafloor®-1241	~2.1 kg/m²/1 mm
	Note: Minimum application thickness of Sikafloor®-1241 is 5 mm These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.		
Layer thickness	≥ 5 mm		
Ambient air temperature	Minimum	+10°C	
	Maximum	+40°C	
Relative air humidity	Minimum	+20 %	
	Maximum	+80 %	
Substrate moisture content	< 5 % pbw		
Pot Life	Temperature	Pot life	
	25°C	~ 40 mins	
	40°C	~ 25 mins	
	Note: The pot life starts when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures.The larger the quantity mixed, the shorter the pot life.		

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

General Method Statement (GMS): Sikafloor®-1241
Method Statement: “EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS”
Method Statement: “MIXING & APPLICATION OF FLOORING SYSTEMS"

IMPORTANT CONSIDERATIONS

- Sikafloor®-1241 systems are supplied in preweighed packs which should not be split or divided. Always use complete packs.
- Failure to comply with the recommended storage conditions may result in premature deterioration of the product packaging.
- Always apply over "tacky" primer. Do not allow primer to cure.
- Cementitious substrates must be at least 4 weeks old.
- Failure to assess and treat cracks could lead to reflectivecracking and reduced service life.
- Fully cured Sikafloor®-1241 can be overcoated with suitable Sikafloor® range of coatings.
- Refer to the overcoating product method statement for coverages and application details.

- Prior to application, Sikafloor®-1241 should be stored under cover in air-conditioned area and protected from temperature extremes, which may cause inconsistent workability, finish and cure times of the mixed material.
- During application in cold weather, correct conditioningis essential, application should be halted if the ambient or substrate temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it is likely to be considerably colder than the surrounding air temperatures. When temperatures exceed 35°C, working times will be reduced significantly.
- When the floor is subjected to chemical or oil spillage or when hygiene is important, the finished surface must be sealed. Consult Sika Technical Services Department for further details.
- Good curing is essential for resin-based materials 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.

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 QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- High spots must be removed by e.g. grinding. Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- Uneven concrete should be levelled to produce a roughened flat surface. Where repairs are required, they can be carried out using Sikafloor®-1241 filled out with additional aggregate or, if time allows, a suitable product from the SikaEmaco range.
- The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.
- Expansion, control and isolation joints in concrete substrates should be carried through Sikafloor®-1241 floors and filled with a suitable sealant from the Sika range.

MIXING

- Mixing should preferably be carried out using a forced action mixer.
- Add the base and reactor to the mixer completely emptying the contents of the containers.
- Mix for 1 minute until a uniform colour is achieved.
- Slowly add the aggregate component and mix for a further 3 minutes until a uniform colour and consistency is achieved.
- Mixing times should be varied according to temperature but typically 4 minutes in total is sufficient.
- It is important to maintain constant mixing times throughout, to ensure consistent colour and to avoid introducing excessive air into the system.

APPLICATION

Priming:
- Prime using Sikafloor® P 1240/50. Mix the two components using a slow speed drill with a suitable paddle.
- Mix until uniform consistency is obtained. The components are preweighed and should not be split or divided.
- Apply by brush or roller and work well into the surface.
- Apply according to the required coverage. Allow to stand for 20 minutes before applying the Sikafloor®-1241 to check for absorption.
- If the surface becomes matt, showing absorption, reprime the surface.
- Apply the Sikafloor®-1241 whilst the primed surface is still tacky.
- If the primer hardens reprime within 24 hours.

Epoxy mortar screed application:
- Divide the total area into bays, covering only an area that can be applied within the pot life of the product.
- Place the mixed screed while the primer coat is still tacky.
- Spread the Sikafloor®-1241 mixture evenly onto the substrate using levelling boards and guide rails, by giving it a surcharge over preinstalled batten (e.g. steel guides adjusted to desired height)
- Than tamp down the screed heavily to desired level to give full compaction.
- When applied in higher thicknesses, compact the screed in layers.
- Level the screed by striking off excess material by running a straight edge ruler across batten.
- Compact thoroughly by tamping.
- Smooth with a hand trowel.
- Finish by steel floating

CLEANING OF EQUIPMENT

Clean all tools and equipment immediately after use with a suitable thinner (Xylene / MEK / Acetone). Once hardened, the 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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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.