

PRODUCT DATA SHEET

Sikadur[®]-42 SP

3-COMPONENT, SELF-LEVELLING, EPOXY RESIN MORTAR



DESCRIPTION

Sikadur[®]-42 SP is a 3-component epoxy resin mortar with high mechanical resistance, based on solvent-free epoxy resins and special granulometry fillers, used for pouring, due to its fluidity and ease of application.

USES

It is a material of high mechanical resistance and shrinkage-free. It is ideal for:

- Fastening of bolts and anchors to horizontal surfaces
- Reinforcement of anchors in concrete on horizontal surfaces (drill holes)
- Filling under support plates in bridges or machine beds
- Filling of large cracks and holes in concrete

CHARACTERISTICS / ADVANTAGES

- Very good adhesion on most building materials: concrete, mortar, stone, brick, fibrecement, steel, glass, resins of polyester or epoxy
- Solvent-free
- Easy to mix, good flow and placement.
- Hardens quickly without shrinkage
- Moisture does not affect hardening

- It has high mechanical resistance. Hard and vibration resistant.
- Water and vapourproof
- It has high resistance at room temperature against chemical agents such as diluted acids, bases, salts and brines, very pure water, waste water, oils and fuels
- Can be used on dry or slightly damp surfaces
- No primer required

APPROVALS / CERTIFICATES

CE-marking and Declaration of Performance as Product for steel reinforcement anchors according to EN 1504-6:2006, based on certificate of factory production control issued by notified factory production control certification body and type testing.

PRODUCT INFORMATION

Composition	Three-component epoxy resin.
Packaging	Predosed batches of 1,5 kg, 5 kg and 20 kg
Colour	Component A: White Paste Component B: Dark grey paste Component C: Clear sand Mixture A+B+C: Grey
Shelf life	24 months from date of production

Storage conditions	In its original, sealed, closed and undamaged packaging, in a dry place, protected from direct sunligh and frost, at temperatures between +5°C and +40°C.	
Density	Fresh mixture ~ 1.9 kg/l	
Compressive Strength	80-90 N/mm ²	(EN 196-1)
Modulus of Elasticity in Compression	19.000 N/mm ²	(EN ISO 527)
Tensile Strength in Flexure	30-40 N/mm ²	(EN 196-1)
Tensile Adhesion Strength	On concrete: > 3 N/mm ² (concrete breakage) On steel: > 17.5 N/mm ²	

APPLICATION INFORMATION

Consumption	1.9 kg per litre of mixture.	
Layer Thickness	6 to 50 mm per layer	
Product Temperature	+5°C min. / +40°C max.	
Ambient Air Temperature	+5°C min. / +40°C max.	
Pot Life	~ 45-60 minutes (at 20°C)	

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate surface must be clean, dry and free from contaminants such as dirt, oil, grease, oxides, scale, paint residues, existing surface treatments and coatings, e.t.c.

SUBSTRATE PREPARATION

Polyester or epoxy substrates must have adequate roughness, which is achieved by grinding or sanding. Then clean using Sika® Colma. In general, the substrate preparation must be done using mechanical means.

MIXING

Part A : B : C = 2 : 1 : 12 parts by weight
Firstly, mix components A and B separately, using an electrical low speed drill (600 rpm maximum). Then pour components A & B into an appropriate mixing vessel and mix them for 1 minute. Slowly add component C and continue mixing until the mix becomes uniform and homogeneous.

APPLICATION METHOD / TOOLS

The product, when prepared as stated above is self levelling and can be poured directly onto the substrate from the mixing pot. When the mortar is poured under base plates, ensure adequate pressure, in order to maintain the flowability of the mortar. Ensure that the air is displaced from the mortar's mass. In cases where Sikadur®-42 SP is poured into metal or wooden moulds, the surfaces of the moulds must be isolated with PVC/ PE sheets, or suitable demoulding agent, in order to avoid adhesion. In cases of large castings, apply the product in more

than 1 layer, ensuring that each previous layer has cured before the application of any subsequent. In all cases, do not exceed 4-5cm of thickness per layer.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using Sika® Colma immediately after use. Hardened / cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- Minimum concrete age prior to the application: 3-4 weeks
- At higher temperatures and increased material quantity, the pot life will be shortened.
- If in lower temperatures the components A and B have become more viscous, this does not mean that the product cannot be used. Liquify them at "bain-marie" at temperatures between +40°C and +50°C (separately). Afterwards, allow them to cool down at temperatures between +15°C to +20°C before mixing them.

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 any information regarding safety issues in use, handling, storage and disposal of chemical waste, users will you should refer to the most recent version of the Material Safety Data Sheet for the product, containing physical, ecological, toxicological and other data security issues.

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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