

PRODUCT DATA SHEET

Sikadur[®]-42 TH

EPOXY RESIN CASTABLE GROUT

DESCRIPTION

A solvent-free, 3-component, pourable grout, based on a combination of high strength epoxy resins and specially graded aggregates. After mixing, it forms a flowable mortar, suitable for grouting and filling.

USES

Sikadur[®]-42 TH is a high strength self levelling material with no shrinkage. It is suitable to grout :

- Bridge bearing plates
- Machine bases
- Fixing bolts and anchors
- Crane rail tracks
- Reinforcement
- And to fill cavities in concrete

CHARACTERISTICS / ADVANTAGES

Sikadur[®]-42 TH offers many advantages to the users :

- Solvent-free
- Good flow characteristics even in thin layers
- Rapid hardening according to grade used
- Suitable for both dry and damp surfaces
- Shrinkage-free hardening
- Curing is not affected by high humidity
- High mechanical strengths
- Tough vibration-resistant material

PRODUCT INFORMATION

Packaging	12 kg (A+B+C)
Colour	Grey (A : transparent, B : transparent, C : grey)
Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +40 °C.
Density	Approx. 2 kg/l

TECHNICAL INFORMATION

Compressive Strength	70-80 MPa at 14 days
Tensile Strength in Flexure	30-35 N/mm ²
Tensile Strength	15-20 N/mm ²
Tensile Adhesion Strength	Concrete : 2.5 N/mm ² (Concrete Failure) Steel : 20 N/mm ² (20°C, 65% r.H., 1 day)
Service Temperature	Maximum = 60°C

APPLICATION INFORMATION

Mixing Ratio	Comp. A:B:C = 2:1:15 parts by weight			
Layer Thickness	Minimum thickness per layer = 15 mm. Maximum thickness per layer = 150 mm.			
Substrate Temperature	Minimum age of new concrete= 3-6 weeks, depending on climate. Minimum substrate temperature = 5°C Maximum substrate temperature = 40°C			
Pot Life	10°C	20°C	30°C	40°C
	-	2 hrs.	60 min.	40 min.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All surfaces should be clean, free from standing water and all loosely adhering particles. Cement laitance should be removed by mechanical means (i.e. sand blasting).

MIXING

Mix components A and B together for at least one minute with a slow speed electric drill (max. 400 R.P.M.) Then add aggregate (component C) and continue mixing until a homogeneous, flowing mortar is achieved.

APPLICATION METHOD / TOOLS

When grouting under bearing plates, ensure there is sufficient pressure to maintain movement of the grout. Air must be allowed to escape. For large volumes, apply in more than one layer, ensuring that the previous layers have hardened and cooled.

CLEANING OF EQUIPMENT

Clean all tools and equipment immediately after use with Thinner C.

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.

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 the exact product data and uses.

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.

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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