

Sikadur®-42 LP

Epoxy Resin Castable Grout

Product Description Sikadur®-42 LP is a solvent-free, 3-component, pourable grout, based on a combination of high strength epoxy resins and specially graded aggregates. Suitable for use in tropical and hot climatic conditions.

Uses Sikadur®-42 LP is a high strength, shrinkage free, self levelling epoxy grout suitable for:

- Bridge bearing plates
- Machine bases
- Mechanical bridge joints
- Fixing bolts, anchors and starter bars
- Tyre less crane rails, rails in tunnels and on bridges
- Pile head treatment
- Filling cavities in concrete

Advantages Sikadur®-42 LP offers many benefits to the user such as:

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

Product Data

Type Epoxy resin, curing agent and selected quartz aggregates

Form Grey (Component A:yellowish, Component B:brownish, Component C: grey)

Packaging 20 kg units (A+B+C)

Storage Condition Store in a dry area between 5°C and 30°C. Protect from direct sunlight.

Shelf life 12 months minimum from production date if stored properly in original unopened packaging.

Technical Data

Mixing ratio Comp. A : B : C = 2 : 1 : 12 parts by weight

Density Approximately 2.0 kg/lt

Pot Life

20°C	30°C	40°C
120 min.	60 min.	40 min.



Mechanical strengths at 23°C, 50% rH, 14 days	Compressive strength Flexural strength Tensile Strength Adhesion (on Concrete) (Concrete failure) Adhesion (on Steel) (DIN 53232)	~ 70 - 85 N/mm ² ~ 30 - 35 N/mm ² ~ 15 - 20 N/mm ² ~ 4 N/mm ² ~ 15 - 20 N/mm ²
Modulus of elasticity	14'600 N/mm ² (static)	
Coefficient of thermal expansion	43 x 10 ⁻⁶ m/m per °C (temperature range -20°C to +60°C)	
Application Details		
Substrate preparation	All surfaces must be clean, sound, free from dust, grease, oils, standing water and all loosely adhering particles. Cement laitance must be removed and the surfaces to be treated must be mechanically roughened. Concrete must be at least 3 weeks old. Metal surfaces (steel and iron) should be free from scale, rust, oil and grease.	
Mixing	Mix components A + B together for at least one minute with a slow speed electric drill (maximum 250 rpm). Slowly add the aggregates (component C) and continue mixing for approximately 3 minutes until a homogeneous, flowable mortar is achieved. Allow to stand for approximately 3 minutes to allow entrapped air to escape.	
Application	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	Clean all equipment and tools immediately after use with Colma Cleaner. Hardened material can only be removed mechanically.	
Curing	Protect from direct sunshine for at least 24 hours.	
Remarks	<ul style="list-style-type: none"> ■ Maximum thickness per layer: 60 mm ■ Minimum thickness per layer: 6mm ■ Minimum substrate temperature: 5°C ■ Maximum substrate temperature: 40°C, depending on thickness and thermal insulation effects ■ Avoid shoulders whenever possible. ■ During high temperatures, materials must be conditioned at a temperature < 25° C before mixing. ■ Base plates and substrates must be shaded from direct sunlight, especially during high temperatures. 	
Notes	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.	
Safety	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet 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 should 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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