Sikadur[®] -42

Epoxy Resin Castable Grout

Product Description	Sikadur [®] -42 is a solvent-free, 3-component, pourable grout, based on a combination of high strength epoxy resins and specially graded aggregates.			
Uses	Sikadur [®] -42 is a high strength, shrinkage free, self-levelling epoxy grout suitable for:			
	Bridge bearing plates.			
	■ Machine bases.			
	Mechanical bridge joints.			
	Fixing bolts and anchors			
	Tire less crane rails, rails in tunnels and on bridges			
	Grouting under equipment, including heavy impact and vibratory machinery reciprocating engines, compressors, pumps, presses, etc.			
	And to fill cavities in concrete and levelling layer for pile cap and pile heads.			
Advantages	Sikadur [®] -42 is available in two different grades of reactivity (normal and long po life), depending on climatic conditions. Other benefits are:			
	 Solvent-free. Coold flow sharestaristics even in this lowers 			
	 Good flow characteristics even in thin layers. Desid hardening according to grade used 			
	 Rapid hardening according to grade used. Suitable for both dry and down substrates 			
	 Suitable for both, dry and damp substrates. Shrinkaga free bardening 			
	 Shrinkage-free hardening. Curring is not affected by high humidity. 			
	 Curing is not affected by high humidity. High mochanical strengths. 			
	 High mechanical strengths. Tough vibration-resistant material. 			
Product Data	Grey (Mix)			
Colour	Comp. (A): yellowish,			
	Comp. (B): brownish,			
	Comp. (C): grey.			
Packaging	Normal type: 10 kg (A+B+C).			
	L.P. type: 31.25 kg (A+B+C).			
	Industrial packing on request.			
Storage	Store at temperatures between + 5°C and +30°C, in original and unopened,			
	sealed and undamaged packaging, in dry conditions away from heat, moisture ar direct sunlight			
Shelf Life	12 months from date of production if stored properly in original unopened packing.			
Technical Data				
Density (20°C)	$Comp (A); \qquad 1.1 c/ $			
	Comp. (A): 1.1 kg/l			
	Comp. (B): 1.0 kg/l			
	Comp. (C): 1.7 kg/l (bulk density)			
	Comp. (A+B+C): 2.0 kg/l (mixed mortar)			
Coefficient of thermal	43 x 10 ⁻⁶			
Expansion	(Temperature range -20°C to + 60°C).			
Mechanical Strengths	■ Compressive strength 70 - 80 N/mm ² (ASTM C308& C-579			
(7days @ 20°C) Full Curing 14 days	■ Flexural strength 30 - 35 N/mm ² (ASTM C-580			
	■ Tensile strength 15 - 20 N/mm ² (ASTM C-307			
	■ Bond strength to concrete ~4 N/mm ² (Concrete Failure) (ASTM C-882			
R	■ Bond strength to Steel 15 - 20 N/mm ² (EN 1524			
	Sikadur® -42 1/			

Modulus of elasticity (static)	14'600 N/mm			
Layer Thickness	Minimum grout depth: 12 mm Maximum grout depth: 40 - 50 mm			
Application				
Mixing Ratio	Comp. A : B : C = 2:1:12 parts by weight Normal/L.P. 2:1:7 parts by volume Normal/L.P.			
Surface preparation	All surfaces must be sound clean, free from oil, grease, laitance, old coatings, frost standing water and all loosely adhering particles. For good bond sand, waterblast grind or scrabble substrates.			
	All anchor pockets or sleeves must be void of water. Sandblast metal base plates to a commercial white finish (SP-10) for maximum adhesion. Apply grou immediately to prevent re-oxidizing.			
	Forming - The consistency of the epoxy grout system requires the use of forms to contain the material around the base plates. In order to prevent leakage or seepage, all forms must be sealed. Apply polyethylene film or wax to all forms to prevent adhesion of the grout. Prepare form work to maintain more than 100 mm liquid head to facilitate placement. A grout box equipped with an inclined trough attached to the form will enhance the grout's flowability and minimize air encapsulation.			
Priming	Primer is not required			
Mixing	Mix components (A+B) together for at least one minute with a slow speed electric drill (max. 250 R.P.M.). Then add aggregate (component C) and continue mixing for approx. 3 minutes until a homogeneous, flowable mortar is achieved.			
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 tools and equipment immediately after use with Sika Colma Cleaner®.			
Material Temperature	Sikadur [®] -42 must be applied at temperatures between +5°C and +30°C Condition the material by also storing at this temperature for 48 hours before use			
Pot Life	<u>C°</u>	Normal Type	L.P. Type	
	10	80 min.	-	
	20	40 min.	2 hrs.	
	30	20 min.	60 min.	
	40	-	40 min.	
Important	Maximum thickness per layer: 5 - 6 cm.			
	Minimum age of new concrete: 3 - 6 weeks, depending on climate.			
	■ Minimum substrate temperature: 5°C.			
	■ Maximum substrate temperature: 40°C.			
	Do not batch. Mix complete units only.			
	Do not subject cured epoxy grout to sudden temperature changes especially during early curing stages.			
		al information please ask fo " (all about bedding and grou	r "A brief guide to the use of Sika $^{\ensuremath{\mathbb{R}}}$ ready $_{\ensuremath{titing})}$.	





Safety Instructions			
Ecology	Components (A+B) contaminate water. Do not dispose of into water or soil but according to local regulations.		
Transport	Comp. A/C: Non-hazardous. Comp. B: 8/66 c).		
Safety precautions	Product may cause skin irritation. Wear gloves and goggles. In contact with eyes or mucous membrane, flush immediately with plenty of clean warm water and seek medical attention without delay.		
Toxicity	Comp. A/B: Class. 4, under the relevant Swiss health and safety codes. Comp. C: Non-toxic under the relevant Swiss health and safety codes.		
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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