Sikadur® -42MP

Epoxy Resin Castable Grout

Epoxy Resili (Sasiable Grout		
Product Description	Sikadur $^{\otimes}$ -42MP is a solvent-free, 3-component, pourable grout, based on a combination of high strength epoxy resins and specially graded aggregates.		
Uses	Sikadur® -42MP is a high strength, shrinkage free, self levelling epoxy grout suitable for:		
	■ Bridge bearing plates.		
	 Machine bases. Mechanical joints (i.e. road/bridge/deck types, etc.) Sleeper-less, direct rail fixing Light rail and permanent way in tunnels 		
	■ 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® -42MP is available in two different grades of reactivity (normal and long pot life), depending on climatic conditions. Other benefits are:		
	■ Solvent-free.		
	■ Good flow characteristics even in thin layers.		
	■ Rapid hardening according to grade used.		
	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			
Colour	Grey (Mix)		
	Comp. (A): yellowish,		
	Comp. (B): brownish,		
	Comp. (C): grey.		
Packaging	L.P. type: 37.50 kg (A+B+C).		
Storage	Store at temperatures between + 5°C and +30°C, in dry conditions		
Shelf Life	12 months from date of production if stored properly in original unopened packing in dry conditions, away from heat, moisture and direct sunlight.		
Technical Data			
Density (20°C)	Comp. (A): 1.1 kg/l		
	Comp. (B): 1.0 kg/l		
	Comp. (C): 1.7 kg/l (bulk density)		
	comp. (c).		

Comp. (A+B+C): 2.0 kg/l (mixed mortar)

(Temperature range -20°C to + 60°C).

43 x 10⁻⁶



Coefficient of thermal

Expansion

Mechanical Strengths	■ Compressive strength	70 - 80 N/mm ²	(ASTM C308& C-579)
(7days @ 20°C)	■ Flexural strength	30 - 35 N/mm ²	(ASTM C-580)
Full curing 14 days	■ Tensile strength	10 - 15 N/mm ²	(ASTM C-307)
	■ Bond strength to concrete	~3.5 N/mm ² (Concrete Failur	re)
	■ Bond strength to Steel	10 - 11 N/mm ²	(DIN 53232)

Layer Thickness Minimum Maximum Miximum Maximum Mall surfact standing grind or All surfact stan	A:B:C = 2:1:15 pa n grout depth: 10 m m grout depth: 150 emperature Thickness max. uction of fillers; appl	m mm 20°-25°C 150mm	(ASTM C580)		
Mixing Ratio Layer Thickness Minimum Maximum Layer * no red Surface preparation All surfa standing grind or All anct to a commediant of the preparation of the post temperation of the post temp	n grout depth: 10 m m grout depth: 150 emperature Thickness max. uction of fillers; appl	m mm 20°-25°C 150mm	25°-30°C		
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Priming Primer in Mix com drill (material Temperature Sikaduri Application When g movem more the Material Temperature Sikaduri	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				
Mixing Mix condrill (material function) Pot life +20°C The potent temperation when go movemment the condition when go when go well as the condition when go well as the condi	to a commercial white finish (SP-10) for maximum adhesion. Apply grout 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.				
drill (ma approx. Pot life +20°C The pot tempera shorter Application When g movem more the Cleaning Clean a Material Temperature Sikadur	Primer is not required				
The pot tempera shorter Application When g movem more th Cleaning Clean a Material Temperature Sikadur	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.				
movemmore the Cleaning Clean a Material Temperature Sikadur	+20°C 45 minutes & +30°C 35 minutes The pot life begins when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed, the shorter the potlife. When grouting under bearing plates, ensure there is sufficient pressure to maintair movement of the grout. Air must be allowed to escape. For large volumes, apply ir more than one layer, ensuring that the previous layers have hardened and cooled.				
Material Temperature Sikadur					
Material Temperature Sikadur Condition	an one layer, ensuri	Clean all tools and equipment immediately after use with Sika Colma Clean			
		Sikadur® -42MP 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			
·	tools and equipme	applied at temperatures so storing at this temperat			
In conta	tools and equipme	so storing at this temperat			
Toxicity Comp Comp	tools and equipme -42MP must be not the material by all VC: Non-hazardous 3: 8/66 c). may cause skin irritet with eyes or mu	so storing at this temperates. tation. Wear gloves and go	mediately with plenty of clean		



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.

Construction



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