

## Sikadur® -42 MP

3-component epoxy resin castable grout

<b>Description</b>	3-component solvent free, moisture tolerant, epoxy grouting system.
<b>Uses</b>	<i>High strength grouting of</i> <ul style="list-style-type: none"><li>■ Starter bars</li><li>■ Anchors</li><li>■ Fasteners</li><li>■ Tie rods</li><li>■ Crash barrier posts</li><li>■ Fence and railing posts</li></ul> <i>Under grouting and bedding of</i> <ul style="list-style-type: none"><li>■ Base plates</li><li>■ Mechanical bridge joints</li><li>■ Bridge bearings</li><li>■ Machine bases for large compressors, heavy machineries</li></ul> <i>Tie less rail grouting</i> <ul style="list-style-type: none"><li>■ Crane rails</li><li>■ Light rail and permanent way in tunnels</li><li>■ Light rail and permanent way on bridges</li></ul>
<b>Advantages</b>	<ul style="list-style-type: none"><li>■ Ready to mix</li><li>■ Good flowability</li><li>■ Rapid hardening according to grade used</li><li>■ Moisture tolerant</li><li>■ Shrinkage-free hardening</li><li>■ Low coefficient of thermal expansion</li><li>■ Corrosion and chemically resistant</li><li>■ High mechanical strength</li><li>■ Tough vibration resistant material</li></ul>
<b>Certificates</b>	International and local test report are available.
<b>Product Data</b>	
<b>Colour</b>	Concrete grey
<b>Packaging</b>	12 kg/set (A+B+C) Industrial packaging on request.
<b>Storage</b>	In dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight.
<b>Shelf life</b>	24 months when unopened and stored correctly.



## Technical Data

Specific gravity	~2.13 kg/litre.	
Mixing ratio	Comp. A : B : C = 5 : 1: 30 parts by weight	
Pot life	Temp. °C	Time
	23	> 45 mins
Compressive strength	100(±15%) N/mm <sup>2</sup> (7 days, ASTM C349/C109)	
Flexural strength	35(±10%) N/mm <sup>2</sup> (7 days, ASTM C348)	
Bond strength	On concrete 3 N/mm <sup>2</sup> (concrete failure)	
Young Modulus	18,000 N/mm <sup>2</sup>	
Thickness	Minimum 10 mm, maximum 150 mm	

## Application

Surface preparation	All surface must be free from standing water and all loosely adhering particles. Cement laitance should be removed by mechanical means.
Priming	Not required
Mixing	Mix comp. A&B together for at least 3 minutes with a slow speed electric drill. (max. 400 rpm) Then add aggregates (comp. C) and continue mixing until a homogeneous flowing mortar is achieved (~ 5 mins.).
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 more than one layer, ensuring the previous layer has hardened and cooled.
Cleaning	Clean all tools and equipment immediately after use with thinner C.
Notes on application / Limits	Maximum thickness per layer: 15 cm Minimum substrate temperature: 5°C Maximum substrate temperature: 40°C

## Health and Safety Information

Ecology	A+B in liquid form pollute water.
Transportation class	Comp. A, C-non hazardous, Comp. B-hazardous refer to safety data sheet.
Waste disposal	According to local law.
Toxicity	Comp. B may cause burns and damage to eyes.
Important notes	Product may cause skin irritations. Wear gloves and goggles. If the material is accidentally splashed into the eyes, flush immediately with water and seek medical attention without delay.  The Strength values mentioned are average values of laboratory tests. The results on the site may vary due to different environment, curing conditions and testing.  Trials should be always conducted before application.  Always refer to the latest updated product data sheet.

## Disclaimer

*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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