

Sikadur®-42 MY

Pourable epoxy grout

Product Description

Sikadur®-42 MY is a 3-part pourable grout, based on a combination of epoxy resins and specially graded aggregates. After mixing, it forms a flowable mortar, suitable for grouting and filling.

Uses

- Self-levelling, flowable epoxy mortar on concrete, stone, mortar, steel, aluminium, asbestos, cement, wood, polyester and epoxy
- Structural bonding of starter bars, anchors, support, braces and tie bars
- Grouting of crash barrier posts, bearing plates, machine bases, mechanical bridge joints and bridge bearings
- Tie-less rail grouting of crane rails, in tunnels and on bridges

Characteristics / Advantages

- Fast, accurate fixing
- Rapid strength gain
- Shrinkage free hardening
- High mechanical strength
- Hardens even at high humidity
- High resistance against abrasion impact and vibration
- Can be applied on dry and damp surfaces (no standing water)
- Good flow characteristics even in thin layers

Product Data

Form

Appearance / Colours Concrete grey powder

Packaging 25 kg sets (Parts A+B+C)

Storage

Storage Conditions / Shelf Life 2 years from the date of production if stored properly in original, unopened and undamaged packaging in dry conditions. Protect from direct sunlight.



Technical Data

Chemical Base	Epoxy resins
Density (20°C)	~ 2.0 kg/ltr
Layer Thickness	12 mm min. / 50 mm max.

Mechanical / Physical Properties

Mechanical Strengths	Compressive strength	> 75.0 N/mm ²	(ASTM C 579)
	Flexural strength	~ 20.0 N/mm ²	(EN 196)
	Bond strength - To concrete (concrete failure) - To steel (grit blasted)	~ 3.0 N/mm ² ~ 34.0 N/mm ²	

Modulus of Elasticity	20,000 N/mm ²
Coefficient of Thermal Expansion	5 x 10 ⁻⁵ per °C (+20°C to +60°C)

System Information

Application Details

Yield	10 kg set yields 5 ltr of grout
Substrate Preparation	Substrate and contact area of base plate, etc. must be clean and sound. Remove laitance, oils and grease by sandblasting or bush hammering. Vacuum clean. Sandblast bottom of base plates and solvent wipe clean. Remove defective areas and patch with Sikadur [®] -41 LP (refer to Product Data Sheet for details). Allow to cure.
Formwork	Due to flowable consistency, seal the forms to prevent seepage. Apply wax to forms or use other bond breaking materials to prevent adhesion of epoxy grout.

Application Conditions / Limitations

Application Temperature	+20°C to +35°C
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Application Instructions

Mix Ratio	Parts A : B : C 2 : 1 : 12 parts by weight / 2 : 1 : 7 parts by volume
Mixing	Mix all of Part B (hardener) with all of Part A (resin) for at least 2 minutes with a low speed electric drill (500 rpm) until a smooth consistency and uniform colour is achieved. Then add all of Part C (aggregates) and continue mixing until a homogeneous mix is obtained. Use immediately.

Application Method / Tools	<p><i>Grouting Under In-Place Equipment</i></p> <p>Pour mixed Sikadur[®]-42 MY into forms. The low viscosity allows it to self-level rapidly. Chaining or rodding is not necessary under normal conditions.</p> <p><i>Grouting New Pads</i></p> <p>Set levelling shims, screeds or adjusting screws. Pour grout in single or multiple lifts from 25 - 50 mm thick. Maintain 50 mm minimum head to ensure intimate contact between grout and plate.</p> <p>Gravity head may be used to increase flow rate and distance, if desired. Machine base must nest in Sikadur[®]-42 MY pad. Place sufficient grout in form to rise slightly above underside of machine base. Strip forms after cure.</p>
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be mechanically removed.
Pot Life (4 kg, +30°C)	40 minutes
Notes on Application / Limitations	<p>Minimum age of new concrete is 3 – 6 weeks (depending on climate).</p> <p>Do not thin Sikadur[®]-42 MY.</p>
Value Base	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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available upon request) containing physical, ecological, toxicological and other safety-related data.
Legal Note	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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