

**PRODUCT DATA SHEET**

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MAINTENANCE OF CONCRETE

# Sikadur®-43 Patch Pak

## EPOXY PATCHING MORTAR

Description	Sikadur®-43 PatchPak, is a three-component, 100% solids, moisture-tolerant, rapid strength-gaining epoxy patching mortar.		
Where to Use	Epoxy mortar designed for interior repairs on horizontal substrates.		
Advantages	<ul style="list-style-type: none"><li>Moisture insensitive before, during and after cure.</li><li>Fast cure.</li><li>Open to traffic in 3 to 4 hours at 23 °C (73 °F).</li><li>Super strengths.</li><li>Ultimate compressive strength exceeds 110 MPa (15 950 psi).</li><li>Excellent resistance to impact and abrasion.</li><li>Canadian Food Inspection Agency accepted</li></ul>		
Technical Data			
Packaging	19.3 kg (42.5 lb) unit		
Colour	Grey		
Yield	Approx. 10 L (610 in³)		
Shelf Life	2 years in original, unopened packaging. Store dry between 5 and 32 °C (41 and 89 °F). Condition product between 18 and 25 °C (65 and 77 °F) before using.		
Mix Ratio	Priming A:B = 2:1 by volume [236:118 mL (8:4 fl. oz)] Resin:aggregate = 1:3 by volume [3.36:10 L (0.88:2.64 US gal.)]		
Properties at 23 °C (73 °F) and 50 % R.H.			
	5 °C (41 °F)*	23 °C (73 °F)*	32 °C (89 °F)*
Pot Life (min)	50 - 55	40 - 45	35 - 40
Final Cure	7 days	16 hrs	4 hrs
Compressive Strength ASTM C579, MPa (psi)			
2 hrs	-	-	14 (2030)
4 hrs	-	-	83 (12 035)
8 hrs	-	24 (3480)	97 (14 065)
16 hrs	-	83 (12 035)	110 (15 950)
24 hrs	1 (145)	83 (12 035)	110 (15 950)
3 days	48 (6960)	90 (13 050)	110 (15 950)
7 days	66 (9570)	90 (13 050)	110 (15 950)
*Product cured and tested at temperatures indicated			
Bond Strength ASTM C882 Modified			
14 days	Damp concrete	19 MPa (2755 psi)	
	Dry concrete	23 MPa (3335 psi)	
	Steel	24 MPa (3480 psi)	
Modulus of Elasticity ASTM C579	20.7 GPa (3.0 x 10 <sup>6</sup> psi)		
Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.			

### HOW TO USE

<b>Surface Preparation</b>	Apply to clean, sound substrate. Remove oil, grease and other bond-inhibiting materials. Surface should be prepared by sand-blasting or other approved mechanical means. Surface may be damp, but free of standing water. The compressive strength of the concrete should be at least 25 MPa (3625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at the time of the application of Sikadur®-43 Patch Pak.
<b>Mixing</b>	Mix Sikadur®-43 Patch Pak components in the 21 L (5.5 US gal.) shipping pail. Remove contents and pour all of components A and B into pail and mix at slow speed (300 - 450 rpm) with an electric drill equipped with paddle for three (3) minutes until blend is uniform in colour and texture. Use neat material to prime substrate. Epoxy portion of unit includes 354 mL (12 fl. oz) for this purpose. If more than 354 mL (12 fl. oz) material is used for priming, discard a proportionate amount of aggregate to maintain a resin aggregate ratio of 1:3 by volume. To prepare mortar, use a mixer. Slowly add sand to mixed epoxy system and blend to uniform colour and texture.

<b>Application</b>	Spread mixed Sikadur®-43 Patch Pak mortar over primed floor and screed or rake to desired thickness. Primer must be tacky when mortar is applied. If primer has dried, apply second coat of primer before placing epoxy mortar. Trowel surface with a uniform pressure to a flat, even finish. For maximum abrasion and impact resistance, a minimum 6 mm (1/4 in) thick surface is recommended. Dampen trowel periodically with water to aid finishing.
<b>Curing</b>	Application at temperatures below 16 °C (61 °F) extends cure.
<b>Clean Up</b>	Ventilate area. Confine spill. Collect with absorbent material. Dispose of in accordance with applicable local regulations. Uncured product can be removed with Sika® Epoxy Cleaner. Cured product can only be removed mechanically.
<b>Limitations</b>	<ul style="list-style-type: none"> <li>▪ Do not thin Sikadur®-43 Patch Pak. Solvents will prevent proper cure.</li> <li>▪ Exposure to temperatures (after cure) above 80 °C (176 °F) (dry) and 50 °C (122 °F) (wet) not recommended.</li> <li>▪ Substrate temperatures must not be below 4 °C (39 °F) during installation.</li> <li>▪ Not recommended in areas subject to extreme thermal change.</li> <li>▪ For interior use only.</li> </ul>
<b>Health and Safety Information</b>	<p>For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.</p> <p>KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY</p>

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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