

Sikadur® 43, Patch-Pak

Pre-proportioned, epoxy mortar patching kit

Description	Sikadur 43, Patch-Pak, is a 3-component, 100% solids, moisture-tolerant, rapid-strength gaining epoxy mortar patching kit.
Where to Use	Use for epoxy mortar patching and overlays on interior, horizontal substrates.
Advantages	<ul style="list-style-type: none"> ■ Factory proportioned kit. ■ Rapid strength gain. ■ Open to traffic in 3-4 hours at 73°F(23°C). ■ Super ultimate strengths. ■ Superior wearing surface.
Coverage	One kit yields approximately 0.5 cu. ft. of epoxy mortar. One kit will cover approximately 48 sq.ft. (4.5 m ²) at a thickness of 1/8 in. (3 mm).
Packaging	70-lb. Patch-Pak kit contains 200.4 fl. oz. of epoxy resin (Component 'A' and Component 'B') in a 3 gal. can; 52 lb. of aggregate (Component 'C') in a multi-wall bag.

Typical Data (Material and curing conditions @ 73°F {23°C} and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	2 years in original, unopened packaging.		
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°F) before using. Component 'C' must be kept dry.		
Color	Concrete gray		
Consistency	Trowel-grade epoxy mortar		
Application life	Approximately 40 minutes		
Tensile Properties: (ASTM-D-638)			
14 day	Tensile Strength	2,100 psi (14.4 MPa)	
	Elongation at Break	0.7 %	
	Modulus of Elasticity	9.7 x 10 ⁵ psi (6,688 MPa)	
Flexural Properties: (ASTM D-790)			
14 day	Flexural Strength (Modulus of rupture)	3,500 psi (24.1 MPa)	
	Tangent Modulus of Elasticity in Bending	1.6 x 10 ⁶ psi (11,032 MPa)	
Shear Strength: (ASTM D-732) 14 day Shear Strength 4,100 psi (28.2 MPa)			
Compressive Properties: (ASTM D-695)			
Compressive Strength, psi (MPa)			
	40°F* (4°C)	73F* (23°C)	90°F* (32°C)
2 hour	-	-	500 (3.4)
4 hour	-	40 (0.27)	8,400 (57.9)
8 hour	-	3,600 (24.8)	10,300 (71.0)
16 hour	-	9,900 (68.2)	12,500 (86.2)
1 day	900 (6.2)	10,500 (72.4)	12,500 (86.2)
3 day	5,800 (40.0)	13,000 (89.6)	13,700 (94.4)
7 day	6,900 (47.5)	13,300 (91.7)	13,700 (94.4)
14 day	8,100 (55.8)	13,300 (91.7)	14,400 (99.3)
28 day	9,500 (65.5)	13,800 (95.2)	14,400 (99.3)
Compressive Modulus 28 day	1.1 x 10 ⁶ psi (7,584 MPa)		

*Material cured and tested at the temperatures indicated.

How To Use

Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants.
Preparation work	Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blastcleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blastcleaning.
Mixing	Mix entire contents of 'A' and 'B' in container for 30 seconds with a Sika paddle on a low-speed (400-600 rpm) drill. Mix until uniform in color. Remove 18 fl. oz. for priming. Pour remainder of the mixed epoxy into an appropriate mixer. Slowly add entire contents of Component 'C' and continue to mix for 5 minutes until you obtain a uniform blend.
Application	Prime the prepared surface with the 18 fl. oz. of mixed epoxy adhesive binder. Prime at a rate of 400-600 sq. ft./gal. Place the mixed Sikadur 43, Patch-Pak, while the primer is still tacky. Place the epoxy mortar by trowel or vibrating screed. Strike off level. Finish with finishing trowel. Do not overwork.
Limitations	<ul style="list-style-type: none"> ■ Minimum substrate and ambient temperature 40°F (4°C). ■ Do not thin. Addition of solvents will prevent proper cure. ■ For interior use only. ■ Material is a vapor barrier after cure. ■ Minimum age of concrete must be 28 days prior to application. ■ Porous substrates must be tested for moisture-vapor transmission prior to application. ■ Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.
Caution	<p>Component 'A' - Irritant; Sensitizer - Contains epoxy resin. Can cause skin sensitization after prolonged or repeated contact. Skin and eye irritant. High concentrations of vapor may cause respiratory irritation. Avoid skin contact. Use only with adequate ventilation. Use of safety goggles and chemical resistant gloves is recommended. In case of exceedance of PELs, use an appropriate, properly fitted NIOSH approved respirator. Remove contaminated clothing. Consult MSDS for more detailed information.</p> <p>Component 'B' - Corrosive; Sensitizer - Contains amines. Contact with eyes or skin may cause severe burns. Can cause skin sensitization after prolonged or repeated contact. Skin and eye irritant. High concentrations of vapor may cause respiratory irritation. Avoid skin contact. Use only with adequate ventilation. Use of safety goggles and chemical-resistant gloves is recommended. In case of exceedance of PELs, use an appropriate, properly fitted NIOSH approved respirator. Remove contaminated clothing. Consult MSDS for more detailed information.</p> <p>Component 'C' - Corrosive; Sensitizer - Contains crystalline silica (sand). Dust may cause respiratory irritation. Crystalline silica may cause delayed lung injury (silicosis) and is listed as a suspect carcinogen by NTP and IARC (2A). Use only with adequate ventilation. In case of high vapor concentrations or exceedance of PELs, use an appropriate, properly fitted NIOSH approved respirator. Remove contaminated clothing. Consult MSDS for more detailed information.</p>
First Aid	Eyes: Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin: Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation: Remove person to fresh air. Ingestion: Do not induce vomiting. In all cases, contact a physician immediately if symptoms persist.
Clean Up	Ventilate area. Confine spill. Collect with absorbent material. Dispose of in accordance with current, applicable local, state and federal regulations. Uncured material can be removed with approved solvent. Cured material can only be removed mechanically.

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