

RUST-OLEUM®



CONCRETE SAVER® FLEXIBLE JOINT SEALANT

DESCRIPTION AND USES

Rust-Oleum® Flexible Joint Sealant is a two-component, rapid curing, 1:1 ratio, self leveling, 100% solids, flexible system that provides 10-15% movement of installed joint width. This product can be used at temperatures between -40 to 120°F (-40 to 49°C).

Flexible Joint Sealant is used to fill interior control joints or new construction saw cuts on horizontal concrete surfaces. It is designed for industrial floor applications receiving heavy duty vehicle traffic. Flexible Joint Sealant can be used for interior expansion joints with the maximum joint width not to exceed one inch. It can be used on exterior applications when minimal joint movement from thermal cycling will occur. Joints can be opened to traffic in 90 minutes at 72°F (22°C).

PRODUCTS

SKU	DESCRIPTION
261998	9 oz. Flexible Joint Sealer
266733	22 oz. Flexible Joint Sealer

COMPANION PRODUCTS

SKU	Description
257397	Replacement Static Mixer Nozzle (3 per pack)
261292	Caulk Gun (9 oz.)

PRODUCT APPLICATION

JOINT PREPARATION

Remove all dust, debris, oil and any other contamination from the construction and/or saw cut joints. For best results re-cut the joints with a dry diamond blade. Joints must be clean and dry. Fill deep cracks with backer rod before applying the joint sealant. The minimum depth of the joint should be twice the width with a minimum depth of ½ inch. Dispense material into joint so that material is slightly higher than the face of the concrete. Allow the product to set for approximately 45-90 minutes at 75° F. Then use a sharp razor scraper to shave excess material from top of slab.

LIMITATIONS: Floor Joint Sealant is not intended for joints that are subject to high movement on exterior applications. This is a moisture sensitive product during and prior to full cure. Joints must be clean and dry to facilitate a strong bond.

Note: 22 oz Flexible Joint Sealant comes in a side by side dual component cartridge. It is compatible with any standard 22 oz. dispensing tool.

PRODUCT APPLICATION (cont.)

CARTRIDGE SET-UP

IMPORTANT: Shake cartridge vigorously for 1 minute, then stand cartridge upright for 1 minute. During set-up of cartridge and initial dispensing of material, keep cartridge and nozzle assembly pointed straight up. **AFTER** the initial shot of material, do not point the cartridge upward to prevent material in nozzle from flowing back into cartridge.

The two components are supplied in a dual cartridge and mixed simultaneously through a static mixing nozzle. While preparing cartridge for dispensing, keep cartridge in upright position to prevent material from leaking out of cartridge. Do not tilt cartridge until material is ready to be applied to the repair area.

APPLICATION

Insert cartridge into dispenser. Make sure it is properly positioned with shoulder of cartridge flush with front/top bracket of the dispenser. Remove plastic cap from the top of the cartridge. Place the mixing nozzle onto the cartridge and secure by threading in a clock-wise direction. Make sure that the nozzle and cartridge assembly is secure. Point nozzle straight up and slowly apply pressure to the dispenser, moving product up and through the nozzle until it reaches the tip. Then dispense 1 stroke of material into a rag or disposable container (1-2 quick bursts if using an air tool) and discard. After purging keep the cartridge pointed downward or horizontal to prevent mixed material in the nozzle from flowing back into the cartridge.

Place the mixing nozzle directly over the crack, joint, or repair area. Dispense material using full smooth trigger pulls (no short choppy strokes) and allow material to gravity feed into the crack/joint. Fill the crack/joint or over-fill the crack/joint so that material is slightly higher than the face of the concrete slab you are repairing. Allow the product to set for approximately 45-90 minutes (at 75°F) and then use a sharp razor scraper to shave excess material from the top of slab.

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FLEXIBLE JOINT SEALANT

PRODUCT APPLICATION (cont.)

FOR SOLVENT-BASED TOPCOATS - You MUST wait a minimum of 24 hours prior to priming. A premium water-based primer that is compatible with solvent-based coatings, such as Zinsser® Bulls-Eye 1-2-3® or XIM® UMA® Advanced Technology Primer•Sealer•Bonder must be used prior to the application of a solvent-based topcoat.

FOR ALL OTHER TOPCOATS- Wait a minimum of 4 hours before priming or top coating.

CLEAN-UP

Clean up immediately with xylene. Rust-Oleum 160 Thinner or MEK may be substituted.

PERFORMANCE CHARACTERISTICS

SHORE A HARDNESS

METHOD: ASTM D2240

RESULT: 75-80

TENSILE STRENGTH (@ 7 DAYS)

METHOD: ASTM D412

RESULT: 1200 psi (8.3 MPa)

ELONGATION (@ 7 DAYS)

METHOD: ASTM D412

RESULT: 82%

ADHESION TO CONCRETE (@ 7 DAYS)

METHOD: ASTM 4541

RESULT: 275 psi (1.9 MPa)

VISCOSITY

METHOD: ASTM D2196

RESULT: Part A: 600 cp

Part B: 460 cp

BOND STRENGTH


METHOD: ASTM C882

RESULT: 400 PSI (2.76 MPa)

COVERAGE*

JOINT SIZE	LINEAR FEET (9 oz.)	LINEAR FEET (22 oz.)
1/8"x1"	10.3	26.7
1/8"x1 1/4"	8.3	21.3
1/8"x1 1/2"	6.9	17.8
1/8"x1 3/4"	5.9	15.2
3/16"x3/4"	9.2	23.7
3/16"x1	6.9	17.8
3/16"x1 1/4"	5.5	14.2
3/16"x1 1/2"	4.6	11.9
3/16"x1 3/4"	3.9	10.2
1/4"x1"	5.2	13.3
1/4"x1 1/4"	4.1	10.7
1/4"x1 1/2"	3.4	8.9
1/4"x1 3/4"	3.0	7.6
1/2"x1"	2.6	6.7

*This table gives rough guidelines on estimating the amount of material needed. These numbers represent the length of joint that can be filled with one 9 oz. or one 22 oz cartridge of material, based on the joints' width and depth.

CRACK REPAIR	TECHNICAL DATA	CS-34
	CONCRETE SAVER® FLEXIBLE JOINT SEALANT	

CHEMICAL RESISTANCE		
CHEMICAL (REAGENT)	RECOMMENDED FOR CONTINUOUS SERVICE	LIMITED RECOMMENDATION (OCCASIONAL SPILLS)
Acetic Acid (10%)	X	
Acetone		X
Bleach		X
Bleach (10%)	X	
Citric Acid (5%)	X	
Crude Oil	X	
Motor Oil		X
Gasoline		X
Diesel Fuel	X	
Skydrol		X
Hydraulic Oil	X	
Ethylene Glycol		X
Fatty Acids	X	
Water (Room Temperature)	X	
NaCl (10%)	X	
Hydrochloric Acid (10%)	X	
Lactic Acid (5%)	X	
Nitric Acid (1%)	X	
Methyl Ethyl Ketone		X
Phosphoric Acid (10%)		X
Sodium Hydroxide (20%)	X	
Sulfuric Acid (20%)	X	
Toluene		X
Urea (50%)	X	
Vinegar	X	
Xylene		X

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PHYSICAL PROPERTIES

		FLEXIBLE JOINT SEALANT		
Resin Type		Two Component Polyurea		
Color		"A" Component (ISO) – Amber	"B" Component (Poly) – Gray	Mixed – Concrete Gray
Solids	By Weight	100%		
	By Volume	100%		
Volatile Organic Compounds		1.72 g/l (0.014 lbs./gal.) MIXED		
Practical Coverage (22 oz. cartridge)		¼" joint x 1" depth; 13.3 feet		
Dry Times @ 70-80°F (21-27°C) and 50% Relative Humidity†	Gel Time	3 minutes		
	Tack Free Time	45-90 minutes		
	Shave "Window"	45-90 minutes to 24 hours		
	Traffic Ready Time	Light Traffic/Topcoat: 90 minutes Heavy Traffic: 12-16 hours		
Storage Stability		Unopened containers at 60-90°F		
Shelf Life		18 months		
Safety Information		For additional information, see SDS		

†Calculated values are shown and may vary slightly from the actual manufactured material.

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