

SELECTION & SPECIFICATION DATA

Type	Polyurea joint sealant
Description	Flexjoint U500 Sealant is a self-leveling, 2-component polyurea joint sealant for heavy traffic areas.
Uses	<ul style="list-style-type: none"> • Resinous flooring joints • Acid brick and tile flooring joints • Polymer concrete flooring joints • Concrete control and construction joints • Concrete isolation joints • Concrete cracks • Freezers
Features	<ul style="list-style-type: none"> • Fast setting • Low temperature cure • Self-priming • Available in twin cartridge caulk tubes • Supports heavy traffic loads over joints • Absorbs irreversible brick growth stresses • Chemical resistant, including jet fuel • High bond strength • Odorless • USDA compliant
Limitations	<ul style="list-style-type: none"> • Not suitable for vertical joint sealing • May discolor in ultraviolet light, but properties are unaffected • Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions.

INSTALLATION GUIDANCE

Reference Specifications	CES-134 Installation of Flexjoint U500 Sealant	
Installation Conditions	Flexjoint U500 Sealant is formulated for use between -40°F (-40°C) and 90°F (32°C) during installation and cure. Concrete must be clean, neutral pH, and dry with 5% maximum moisture content per ASTM F2170 and surface temperature at least 5°F (3°C) above the dew point.	
Ratio	1.0: 1.0 proportioned twin cartridges	
Mixing	Install twin cartridges into dual-component caulk gun. Install mixing tip onto cartridges. Discard the first few milliliters of mixed product until color is uniform. Dispense material through mixing tip into joint. Use promptly; work life is very short.	
Work Life	<p>< 1 minute at 70°F (21°C)</p> <p>Work life is shorter at higher temperatures.</p>	
Cleanup	Mineral spirits	
<u>CURE TIME</u>		
Temperature	Tack Free	Full Cure
70°F (21°C)	2-3 minutes	60 minutes
<u>SAFETY</u>		
Safety	Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.	
Ventilation	Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.	

PACKAGING & ESTIMATING

Product	Code	Packaging
Flexjoint U500 Sealant Black	29492	10 pack of 20 oz tube sets 2 x 10 oz (300 ml) tubes per set

Flexjoint U500 Sealant Gray	29520	10 pack of a 20 oz tube set 2 x 10 oz (300 ml) tubes per set
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Large 10 gallon units consisting of 1 x 5 gal pail of Part A and 1 x 5 gal of Part B are available. Contact ErgonArmor for details.

Theoretical Coverage	
	1/4 x 1/4 inch - 32 lineal feet per 20 oz tube set
	1/2 x 1/2 inch - 11 lineal feet per 20 oz tube set
	1/2 x 1 inch - 6 lineal feet per 20 oz tube set
	1 x 1 inch - 2 lineal feet per 20 oz tube set

Storage & Shelf Life	
	Maintain products in original packaging and sealed until ready for use. Estimated shelf life of Flexjoint U500 Sealant is 12 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ErgonArmor.

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Black or gray
Consistency	Self leveling
Density	9.15 lb per gal (1,097 kg/m ³)
Shore A hardness, ASTM D2240	80 ±5
VOC content	0
Tensile strength, ASTM D638	900 psi (6.2 MPa)
Elongation, ASTM D412	>300%
Adhesion to concrete, ASTM D4541	>300 psi (2.0 MPa)

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