

**CE-134**  
**06/15 Supersedes 12/13**

### **FLEXJOINT<sup>®</sup> U500 SEALANT**

#### **DESCRIPTION**

FLEXJOINT U500 Sealant is a two-component polyurea joint sealant for expansion and control joints in corrosion-resistant floor construction. FLEXJOINT U500 Sealant combines excellent bonding strengths with chemical resistance and resiliency to yield a sealant that reacts well to the stresses that floors typically encounter in food, beverage, and chemical process environments. FLEXJOINT U500 Sealant can be applied using manually operated plural component caulking equipment or low pressure pumps for larger jobs. **Consult Corrosion Engineering specification [CES-134](#) for complete installation details.**

#### **AREAS OF USE**

FLEXJOINT U500 Sealant is fluid at normal temperatures and is used for filling horizontal expansion joints in monolithic and acid brick floor construction, concrete floor slabs, column pedestal isolation joints, foundations, piers, latex concrete floor toppings, epoxy and vinyl ester resin toppings, metal, glass, and ceramic tile. It is ideal for use in areas that must be placed into service immediately.

FLEXJOINT U500 Sealant is available with a choice of two hardness ratings. Shore A 80 is suitable for filling joints with moderate to heavy traffic loads and minor movement demands. Shore A 45 is a softer material and is more suitable for joints with greater expansion contraction requirements that do not have heavy load transfer demands.

#### **OUTSTANDING FEATURES**

- Resistant to many acids, alkalis, and solvents.
- Excellent bond to properly prepared substrates. No primer required.
- Pre-proportioned unit components for ease of mixing and use. Simple to use in small quantities with easy to load twin cartridge equipment. See [CES-134](#) for full details.
- Sets in minutes, and can be placed in service within an hour at 70°F (21°C).

**TYPICAL PHYSICAL PROPERTIES**

PROPERTY	FLEXJOINT U500 SEALANT
Consistency	Self leveling
Colors	Standard Black or light gray. Custom on request.
Solids content	100%
Service temperature	-40°F - 250°F (-40°C - 121°C)
Working time	N/A - components are mixed at tip
Initial Set / In service time	5-10 minutes / 30-60 minutes @ 70°F
Shelf life	12+ months if stored at 60°F (15°C) Shake part B tube vigorously before use.
Tensile strength (ASTM C-307)/ Elongation (D-412)	2000 psi (13.8 MPa) / 400%
Bond strength (ASTM C-321) 28 days @ 70°F (21°C)	Greater than strength of concrete
Hardness, after 24 hours @ 70°F (21°C) Dependent upon grade of material selected	80 +- 5 (Shore A) 45 +-5 (Shore A)

**ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE**

PRODUCT	CODE	PACKAGING	COVERAGE - THEORETICAL
FLEXJOINT U500 Black Shore A 80	29492	10 pack of 20 oz tube set	1/4" x 1/4" - 308 lineal ft./gal    48* lineal ft./tube set 3/8" x 3/8" - 136 lineal ft./gal    21* lineal ft./tube set 1/2" x 1/2" - 77 lineal ft./gal    12* lineal ft./tube set 1/2" x 1" - 38 lineal ft./gal    6* lineal ft./tube set 1" x 1" - 19 lineal ft./gal    3* lineal ft./tube set
	Call	10 gallon unit	
FLEXJOINT U500 Lt Gray Shore A 80	29520	10 pack of 20 oz tube set	
	Call	10 gallon unit	* Note: tube set coverage is theoretical only. Actual coverage should be reduced 10% to allow for discarding of unmixed start up sealant and amount remaining in mixing head at end. Additional reduction may or may not be realized due to irregularity in joint size.
FLEXJOINT U500 Black Shore A 45	Call	10 pack of 20 oz tube set or 10 gallon unit	
Lt Gray Shore A 45			
Double cartridge caulking gun	28520	1 each	

**SAFETY PRECAUTIONS / DISCLAIMER**

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 [material safety data sheets](#) before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.



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