

510 CJ

SUPERSTICK 510 CJ

Lo-Mod Flexible Epoxy Joint Sealant

FORMULATED AND LABELED FOR PROFESSIONAL USE ONLY
NOT FOR SALE TO OR USE BY THE GENERAL PUBLIC



E-BOND 510 CJ LOW-MOD FLEXIBLE EPOXY JOINT SEALANT

PRODUCT DATA

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DESCRIPTION

E-BOND 510 FLEXIBLE EPOXY JOINT SEALANT is 100% solids, solvent-free two-component MOISTURE INSENTIVE very unique LOW-MODULUS OF ELASTICITY. An extremely flexible joint sealant to fill non-moving saw-cut, construction and control joints which are structurally dry and free of hydrostatic pressure. Excellent as a flexible adhesive for numerous construction materials.

E-BOND 510 FLEXIBLE EPOXY JOINT SEALANT CONFORMS TO ACI 302-1R (4.10 – JOINT MATERIALS)

FEATURES:

- Easy mix ratio of 1 Parts A to 1 Part B by Volume
- Controls deterioration of control joint edges
- High flexibility...does not age harden
- As a control joint sealant...resists wheels and heavy loads
- Fast setting; provides fast cures within 24 hours
- Low temperature cures – As low as 40°F (4°C)
- Zero VOC – Fully Reactive, No low boiling constituents

PHYSICAL PROPERTIES

Material & curing conditions@ 75°F and 50% RH

Type:	Moisture Insensitive & Low Temperature Cure Low Modulus, Flexible Epoxy Joint Sealant		
Color:	Part A Resin	White	
	Part B Hardener	Black	
	Admix	Gray	
Mixing Ratio:	Component A/B	1:1 by volume	
Viscosity:	Ad Mix	ASTM-D-2393 ps (Pas)	200-400 poises (20-40 Pa.S)
Pot Life:		ASTM C 881 Modified	30 – 40 minutes @ 75°F (24°C)
Tack-Free Time:		(Thin Film)	3 - 5 hours @ 75°F (24°C)
Tensile Properties (14 Days):	ASTM D-638		
	Tensile Strength, PSI (Mpa)	550 (4)	
	Tensile Elongation at Break	100%	
	Modulus of Elasticity, PSI (Mpa)	12,000 (83)	
	Tensile Stress PSI (Mpa) at		
	10% Elongation	60 (.4)	
	25% Elongation	250 (2)	
	50% Elongation	450 (3)	
Hardness (14 Days)	Shore A	70-100	
Bond Strength:			
2 day (Moist Cure), PSI (Mpa)	ASTM C-882	750 min. (5)	
Hardened Concrete to Hardened Concrete or Steel			
14 day (Moist Cure), PSI (Mpa)	ASTM C-882	450 min. (3)	
Plastic Concrete to Hardened Concrete or Steel			
Shear Strength PSI (Mpa) :	ASTM D-732	400 (4)	
Shelf Life:	One Year from Manufacture date		
Storage:	Store Dry at 40°F (4.4°C)-95°F(35°C) . Condition to 65°F (18°C) -75°F(24°C) before using. Protect from inclement weather and freezing.		

Limitations

- Do not thin. Addition of solvents may prevent proper cure.
- Substrate temperature should be 50°F (10°C) minimum and rising.
- For best results, Precondition the components and maintain between 70°-80 °F (23°-27°C) during application.
- Do not use in expansion (moving) joints. For application in non-moving joints only
- Do not apply through standing water, not designed for constant immersion.
- Minimum age of concrete is 28 days. A 60+ day cure is recommended.
- Concrete or masonry must be tested for water-vapor transmission prior to application.
- Materials are a vapor barrier after cure
- Ultimate performance is depended on a thermal stable slab and proper joint design.
- All non-moving construction/control joints should be installed to full depth, backer rod should not be used.
- 510CJ is a self-leveling material designed for horizontal only on applications with maximum grades up to 15%.
- Color variations may occur due to exposure to lightening and /or UV. 510 CJ is not an aesthetic product.

PACKAGING:

Available in 2 gallon units (Stock Item)
and 10 gallon units (Non-Stock Item).

COVERAGE:

1 Gallon of E-Bond 510 Flexible Joint Sealant contains 231 cubic inches. Coverage of an 1/8" wide by 1/2" deep joint is approximately 100 lineal feet.

SURFACE PREPARATION:

All surfaces must be structurally sound, clean and free of dirt, dust, oil, grease or any contaminant that would adversely affect the bond. Use electrical tape to seal any cracks more than 1/32" wide at the bottom of control joints to prevent seepage. Surfaces may be dry or damp, but free of standing water. Dirt and dust after surface preparation can affect the bond. Rubbing your hand over the surface will indicate if dust is present. Use oil-free compressed air to blow out any dirt or dust from the joint just prior to applying the epoxy.

MIXING:

For best results, prior to mixing pre condition the components to 70°- 85°F (21°- 29°C). Mix only the amount that can be used within the working life of the product Pre-mix each component separately. Place in a clean container, 1 part by volume of Component A (Resin) and then add 1 part of Component B (Hardener). Container should have a flat wall and flat bottom, with a capacity of at least 1½ times the MIX THOROUGHLY for 2 to 3 minutes with a paddle on a slow speed drill (400 or 600 rpm). Scrape the sides and bottom of bucket thoroughly while mixing. The two components must be thoroughly mixed and mated to a uniform color Improper mixing can result in soft or sticky spots

APPLICATION:

E BOND #510 is a self-leveling material designed for horizontal applications only. Pour the mixed material or use or use low pressure extrusion to fill the entire depth by allowing the material to flow slowly, to settle and self-level. Strike-off level and remove any excess material.

For your particular use of E BOND #510 as a Flexible Adhesive call E Bond Technical Service for recommendations. For other applications of sealing of control or construction joints consult E Bond Tech Service.

CAUTION - For professional use only; not for sale to or use by the general public. E-Bond's epoxies contain alkaline amines. Strong sensitizer; **MAY CAUSE SKIN SENSITIZATION** or allergic response ranging from a mild wheezing to a severe asthmatic type attack. Avoid contact with skin or eyes. IN CASE OF CONTACT immediately wash skin with soap and water. Flush eyes with water and obtain medical attention. Wear protective clothing, goggles, and barrier cream on all exposed skin.

Prior to each use of any E-Bond product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Material Safety Data Sheet which are available by calling E-Bond Epoxies at 954 566.6555 (Sales). Nothing contained in any E-Bond materials relieves the user of the obligation to read and follow the warnings and instructions for each E-Bond Product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use.

LIMITED WARRANTY NOTICE: E-BOND EPOXIES, INC warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within the shelf life of one (1) year from manufacture date. Satisfactory results depend not only on quality products but also upon many factors beyond our control. The purchaser must examine the product when received and promptly notify E-BOND EPOXIES, INC in writing of any nonconformity before the product is used and no later than 30 days after such non-conformity is first discovered. If E-BOND, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty.

The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE. E-BOND shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if E-BOND could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.



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