

1. Product Name

Ultrabond FE2315 Pick Proof Security Sealant.

2. Manufacturer

Adhesives Technology Corp.
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3. Product Description

GENERAL DESCRIPTION

Ultrabond FE2315 Security Sealant is a pick-proof, two component (1:1 ratio), 100% solids, semi-flexible, epoxy adhesive. It is a solvent free, no odor, moisture insensitive, non-sag epoxy adhesive. It is currently available in White.

Ultrabond FE2315 can be applied at temperatures ranging from 40° F. to 110° F. which provides engineers and facility managers with a choice when specifying and applying pick-proof sealants in high and low temperature environments.

Ultrabond FE2315 has a 35 minute gel-time (at 75°F.) that provides the installer plenty of time for sealing joints in security area's and correctional facilities.

CURE SCHEDULE *

Gel Time at 75°F. (60 gram mass)	35 minutes
Gel Time of a 5/16" Diameter Bead	5 Hours
Working Time at 75°F. (in nozzle)	90 minutes
Full Cure Time (pick-proof)	72 Hours
*Cure schedule at 75°F (24°C)	

BASIC USE

Ultrabond FE2315 Security Sealant is formulated for use as a Pick-Proof Sealant for sealing joints in facilities that require pick-proof and tamper resistance. This product is ideal for use in correctional facilities to prevent the hiding of contraband and other related items.

APPLICATIONS:

- Pick proof sealant – windows, doors, locks, etc.
- (e.g. correctional facilities)
- Ideal for bonding metal to metal
- Adhesive for marine applications and fiberglass repairs
- Hollow block joint repairs
- Sealing joints in concrete to prevent water intrusion
- Capping gel for crack-injection
- Crack sealer / filler (non-structural crack repairs)

COLOR	"A" Component (resin)	"B" Component (hardener)	Mixed
Ultrabond FE2315 Grey	White	Black	Grey
Ultrabond FE2315 White	White	White	White

SHELF LIFE: 9 Months

SIZE/PACKAGING

Cartridge Sizes: **Ultrabond FE2315** is available in:

- 22 oz. cartridges; GREY: part number A22-FE2315NG
- 22 oz. cartridges; WHITE: part number A22-FE2315NWH

The resin and hardener are uniformly dispensed from a dual cartridge system and mixed simultaneously through a mixing nozzle, providing contractors with a self mix delivery system.

Bulk Sizes: Please contact Adhesives Technology Corp. for bulk packaging inquiries.

4. Technical Data

Technical Data		
Properties	ASTM	Results
Tensile Strength – psi (7 day)	D638	2,400
Bond Strength – psi (2 day)	C882	1,820
Elongation - % (14 day)	D638	15
Compressive Strength – psi (14 day)	D695	5,360
Consistency	C881	Non-Sag Gel
Visual Appearance (mixed)		Creamy Consistency
Hardness (Shore D)		67 - 73
Visual Appearance (mixed)		Creamy Consistency
VOC Content (benzyl alcohol)		51 g/l

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Sample Specification – Adhesive sealant shall be a two component, 1:1 ratio, 100% solids epoxy system supplied in a two component side by side cartridge and dispensed through a static mixing nozzle supplied by the manufacturer. When mixed, the adhesive must have a tensile strength of 2,400 psi and elongation at break of 15%. Adhesive shall be **Ultrabond FE2315** manufactured by Adhesives Technology Corp., Pompano Beach, FL.

System Component Accessories		Coverage Chart (thin film thickness)		Estimating Chart (bead)	
Container Size:	22 oz cartridge	Thickness	Square feet per 22 oz cartridge	Bead Size	Lineal feet per cartridge
Product:	A22-FE2315NWH (WHITE)				
Dispenser (manual):	TM22HD	1/64"	16-7/8 ft ²	1/16 x 1/2"	102
Dispenser (air):	TA22HD-N	1/32"	8-7/16 ft ²	1/16 x 1"	51
Recommended Nozzle:	T3438C	3/64"	5-5/8 ft ²	1/8 x 1/2"	51
Other Nozzles that may be used depending on application:	T3412C T1C	1/16"	4-1/4 ft ²	1/8 x 1"	26
		5/64"	3-3/8 ft ²	3/16 x 1/2"	34
		3/32"	2-13/16 ft ²	3/16 x 1"	17
		1/8"	2-1/8 ft ²	1/4 x 1/2"	26
		3/16"	1-7/16 ft ²	1/4 x 1"	13

5. Installation

Job site preparation and work flow – to achieve the desired results, carefully follow these procedures!

- Always be sure the bonding surfaces are prepared in advance before starting a new cartridge. If at all possible, schedule dispensing to consume an entire cartridge at one time with no interruption of epoxy flow.

To achieve maximum flow and reduce fatigue, break off the nozzle to the largest desired diameter for your application. If placing epoxy into a hole, then snap off nozzle to the smaller diameter section that will fit your application.



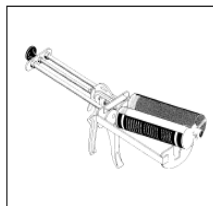
Most nozzles snap off to accommodate varying hole diameters and/or depths.

Dual Cartridge Surface and/or Hole Preparation and Cartridge Set up

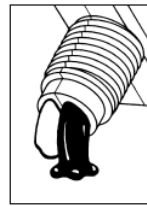
I. Clean bonding area with a nylon brush and compressed air. Blow out dust from the bottom of the hole or bonding area. Brush the area again with a nylon brush. Blow out dust again. The bonding area should be clean of dust and debris.



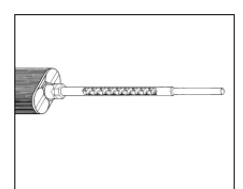
II. Insert cartridge into dispenser making sure it is properly positioned with shoulder of cartridge and flush with top bracket of the dispenser.



III. Remove plastic cap(s) from the tip of the cartridge. Dispense a small amount of epoxy into a disposable container until you get an even flow of both materials.



IV. Attach the correct nozzle to cartridge and secure (see component accessories). Make sure that the nozzle and cartridge assembly are secure. Dispense enough epoxy into a disposable container (1 – 2 fluid oz.) until the color becomes a consistent grey with no streaks. See special note below for the A22-FE2315WH (White Material).



Note: when dispensing and mixing the Ultrabond FE2315 WHITE material it is extremely important that you follow the above prescribed procedures step by step to ensure that the cartridge is equally balanced and that both components are dispensed at the correct ratio. Because both components are white there is no visual identification that the components are equally balanced and mixed at the correct 1:1 ratio. Be certain that you dispense approximately 1 – 2 fluid oz (approximately a 6" bead) of epoxy into a disposable container before applying to bonding or joint surface area.

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BUILDING CODES

Installation of Ultrabond epoxies must comply with applicable local, state and national code requirements.

SITE CONDITIONS

Material shall be delivered in original unopened containers and stored in a dry environment at a temperature between 40° and 95°F.

PRECAUTIONS

- Wear safety glasses
- Avoid prolonged contact with skin.
- Keep out of reach of children
- Do not take internally
- If Ingested and conscious, give large quantities of water or milk. Do not induce vomiting. Call a physician
- Eye contact. Flush with water for at least 15 minutes. Call a physician

6. Availability and Cost

AVAILABILITY

Ultrabond epoxies are available through select distributors who can provide you with all of your construction needs. Please contact Adhesives Technology Corp. at (800) 892-1880 for a distributor near you.

COST

Cost information is available from you local distributor.

7. Warranty

All warranties of the product listed herein, in the corresponding ATC catalog, and in any other current literature, expressed or implied, including warranties of merchantability and fitness for a particular purpose are specifically and expressly excluded, with the following exception: At its sole discretion, ATC will repair or replace any product which it considers to be defective in material or workmanship, excepting normal wear and tear within sixty (60) days from the date of purchase from ATC. ATC shall not be liable for any injury, loss or damage, direct, indirect, incidental or consequential or arising out of use of, misuse of, negligence, accident or inability to use any ATC product.

8. Technical Services

For technical support contact Adhesives Technology Corp. at (800) 892-1880.

9. Maintenance

None required.

10. Filing System

Additional product information and specifications are available either on line at www.atc.ws or contact Adhesives Technology at (800) 892-1880 to get copies mailed to you.

Actual user performance and data may differ due to variations of base material, installation procedures and personnel, weather conditions and other factors. Adhesives Technology Corp. reserves the right to change specifications or information printed in this Tech Data Sheet without notice or liability for these changes. Adhesives Technology Corp. will not be liable for any claim based on the use of data or other information printed in this Tech Data Sheet.

DISPENSING TIPS

Always Balance your Cartridge

This applies to all two part adhesives



When dispensing epoxy, always balance the cartridge first. To balance the cartridge, dispense equal amounts of both the "A" component and "B" component material until you get an even flow. This is extremely important and must be done before attaching the mixing nozzle.



Balancing the cartridge helps assure that a uniform blend will be obtained by the time the product reaches the tip of the nozzle. Always dispense a small amount of epoxy off to the side before dispensing into hole or bonding surface to examine the epoxy color. Do not use epoxy until a uniform color, free from streaks is achieved. For FE2315 White, always dispense 1 – 2 fluid oz. (approximately 6 inch bead) to the side before using epoxy)

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