

G-78

E-BOND G-78 Piezo Sealant

100% Solids Low Modulus Epoxy Grout



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PRODUCT DATA

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DESCRIPTION

E-BOND G-78 is a pourable epoxy grout particularly designed for use in the placement of traffic counters and sensors in pavement surfaces.

FEATURES AND BENEFITS

- Simple ready to use kit with all ingredients in a sealed mixing container.
- Produces a Low Modulus epoxy grout, self-leveling type.
- Low temperature cures as low as 50° F.*
- Zero VOC - Fully reactive, no low boiling constituents

TYPICAL DATA

(Material and curing conditions @ 50°F & 75°F (24°C) and 50% R.H.)

Different temperature information Tack-Free Time and Set Times are provided as a guideline for expected properties in actual field application temperatures

Color:	Component A: Straw	Component B: Straw	Component C: Sand	Ad Mix: Straw
Application Time Gel Time A+B+C	50°F (10°C) * Not suggested for mixing	77°F (25°C) 13-14 min.		
Initial Set Time*	75 min.	40 min.		
Peak Exotherm (5/8 x 2)	NR	110°F		
Compressive Strength (ASTM C-579) 7 days		5000 psi (34.47 MPa) min		
Water Absorption ASTM D-570		0.20%		
Shelf Life		1 year in original, unopened containers when properly stored within recommended temperatures.		
Storage Conditions		Store dry between 40°-95°F (4°-35°C). Protect Components 'A' and 'B' from freezing. If frozen, discard. Condition material to 70°F-85°F (18°-29°C) before using.		
Packaging & Yield (2 size units available)		Packaged as a unit containing components A, B, & C in a one (1) gallon plastic bucket approximate yield of 90 cubic inches. Packaged as a unit containing components A, B, & C in a one (2) gallon plastic bucket approximate yield of 180 cubic inches.		
Shipping		90 in ³ Unit : 4 units per shipping container. 180 in ³ Unit : 2 units per shipping container:		

***TEMPERATURES:**

E-BOND G-78 Piezo Sealant will cure at temperatures as low as 50°F and rising. Fast setup times can only be archived at lower temperatures by preconditioning all components to 75°F+ just prior to use. The initial set time at 50°F was established by conditioning and mixing all components at 75°F, immediate placement of the mixed epoxy into a 2" deep by 3/4" wide jig preconditioned at 50°F and curing in a 50°F environment.

HOW TO USE G-78 PIEZO SEALANT

Surface Preparation

Saw cut joint to desired dimensions

Clear saw cut of water and debris using oil free compressed air

1. Substrate must be clean and sound
2. Remove dust, latience, grease, curing compound or any contaminate that would adversely affect the bond, etc. of the epoxy by mechanical means i.e., sandblasting, high pressure water blasting, etc.
3. For steel, sandblast to a white metal finish. Dirt and dust after surface preparation can affect the bond. Rubbing your hand over the surface will indicate if dust is present.

CAUTION: Asphalt

- A) Composition of asphalt varies from area to area. It also varies as according to age, etc.
- B) In sawing asphalt, the heat generated can liquefy the asphalt oil and contaminate the surface. Wet sawing may reduce the asphaltic oil contaminating the surface.
- C) In some cases, after proper surface preparation, within a half an hour beads of asphalt oil can extrude from the prepared surface.
- D) When in doubt, sandblast all surfaces that will come in contact with the epoxy, prior to placement of the epoxy.

Mixing

Remove all components from the Mixing Container (1 or 2 gallon bucket).Add Component "B" (hardener) to the mixing bucket and then add the Component "A" (resin). Use a flat paddle to carefully scrape the sides and bottom to remove all material from the resin and hardener buckets. Mix resin and hardener very thoroughly in the mixing bucket .Slowly add component C (filler) to the mixed resin and hardener. Stir until thoroughly dispersed with no evidence of lumps or dry material. Take special precautions to ensure thorough mixing at the sides and bottoms. Once mixed immediately dump into the designated area. This product has limited working time in the mixing bucket. Working time is slightly extended in thin sections.

Do not attempt to thin E-BOND G-78 Piezo Sealant with any type of solvent. The use of toluene or other thinners are recommended for clean-up of equipment. Do not store at temperatures below 60°F or above 100°F.

Application

Ensure that all surfaces are properly cleaned and dry. Slowly pour the grout. Pack well around the traffic counters and sensors as detailed by counter or sensor manufacturer.

WORKING WITH E-BOND G-78 IN COOL WEATHER

Product

The viscosity of the product thickens substantially as the product temperature drops, the working and set times are extended, lengthening the time to open to traffic.

For best set times in cooler weather all components should be conditioned or stored in an environment of at least 75 °F or higher for at least 24 to 48 hours prior to use.

Emergency Heating: Some contractors have advised they warm material at the job site by placing the components adjacent to the warm engine under the hood or in the cab of the truck. The issue with this procedure is the difficulty in warming up the filler.

Substrate

The applicator has limited control over substrate temperature. Suggestions that will help the contractor:

Immediately after cutting the opening in the highway, place a wooden box containing conventional light bulbs (same type of bulbs as use in placement of their traffic controls over the opening).

Immediately after installing epoxy, place the cover over the complete installation. The bulbs used should not create excessive heat so as to burn any of the wires in the piezo. This procedure will promote rapid opening of the area within an hour even in extremely cold areas at temperatures of >40 °F.

CLEAN-UP: Ventilate area. Confine spill. Collect with absorbent material. Dispose of in accordance with current, applicable local, state, and federal regulations. Uncured material can be removed with approved solvent. Cured material can only be removed mechanically.

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

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 shelf life. 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.

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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.



E-BOND EPOXIES, INC.

501 N.E. 33RD ST
P.O. BOX 23069
FT. LAUDERDALE, FL 33307
TOLL FREE : 877-265-0011
PHONE: (954) 566-6555
FAX: (954) 566-6663
E-Mail: info@ebondepoxies.com
www.ebondepoxies.com
V. 042916