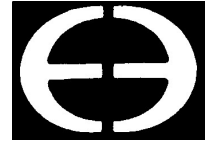


1240 / 1241

E-BOND 1240/1241 MARKER ADHESIVE EPOXY



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

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PRODUCT DATA

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DESCRIPTION

E-BOND Standard Set Marker Adhesive Epoxy is a 100% solids, Zero VOC, Solvent-Free, Two Component Epoxy Structural Adhesive. E-BOND 1240/1241 IS PRIMARILY DESIGNED FOR PLACEMENT OF RAISED AND RECESSED TRAFFIC MARKERS AND TRAFFIC LANE DELINEATORS.

The product may be mixed by hand or used with automatic mixing and metering equipment for rapid placement of markers on highway surfaces.

E-BOND 1240/1241 CONFORMS TO AASHTO M-237, TYPE II

FEATURES:

- Easy mix ratio 1 to 1, A to B
- Fast setting, provides high early strength
- Non-abrasive formula permits application with automated equipment
- Provides excellent adhesion to most structural materials
- Low temperature cures as low as 40 °F (4.4 °C)* *
- Excellent bonds to hardened, Portland cement and asphalt concrete
- Zero VOC - Fully Reactive, no low boiling constituents

For Best Performance

- Precondition the components to 80°F (27°C) to 85°F (29°C) for 24 hours before use.
- Minimum ambient, surface, aggregate and epoxy temperatures should be 50°F (10°C) and rising at the time of application.
- Store at 70°F to 90°F (21°C to 32°C).
- Protect from freezing and inclement weather
- Do not add solvents or water to epoxy material.
- Do not alter or change the recommended proportions when blending the components.
- Shelf Life – 1 Year from date of manufacture stored in closed original container

PHYSICAL PROPERTIES

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

Type:	E-Bond 1240/1241 Non-Sag Standard Set Epoxy Adhesive	
Color:	Part A Resin	White
	Part B Hardener	Black
	Admix	Gray
Mixing Ratio:	Component A/B	1:1 by volume
Viscosity (poises):	Part A - Resin	350-600 (35-60 PaS)
ASTM D-2393	Part B - Hardener	350-600 (35-60 PaS)
	Ad Mix	350-600 (35-60 PaS)
Pot Life:	ASTM C 881	Approx. 7-13 minutes @ 77°F (25°C)
Bond Strength to Concrete and / or Asphalt	Minutes to Reach 210 psi (1.5 Mpa)	90 Minutes
Slant Shear Strength	24 Hrs. @ 77°F (25°C)	2000 psi minimum (13.8 Mpa)
	Plus 24Hr. Water Soak	1500 psi minimum (10.3 Mpa)
Tensile Adhesion & Cohesion	To Ceramic Button Bottom	700 psi minimum (4.8 Mpa)
Tensile Strength	Cured for 24 Hrs.	83.8 Kg/cm ² (1192 psi) / (8.2 Mpa)
Deflection Temperature	Temperature at 0.25 deflection	127°F (53°C)
ASTM D 648-98		



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TEMPERATURE CONSIDERATIONS

Surface temperature and ambient temperature is quite often beyond the control of the applicator. The applicator should, however, consider the effects of temperature on the product.

A product that is stored in a temperature range of 80°F to 90°F (27-32° C) will thin out slightly, making it easier to hand mix. A product mixed at a warmer temperature will have a slightly shorter pot life, perhaps in the neighborhood of 6 min. but faster setting time, thus permitting the area to be opened earlier to traffic.

Product temperatures below 70°F (21° C) thickens very rapidly to a heavy paste making it difficult to mix, provides longer working time, with resulting much longer setting time and delay in opening the areas to traffic

Automatic metering in mixing equipment is the ideal way of using the products. This equipment has the ability to warm the product up to 110 ° F (43.3° C), automatically meters the correct portion and provides thorough mixing.

When applying on road surfaces when it's anticipated that the surface will be in the 50's F (10's C), it is recommended that both components be stored at 80°F to 85°F (27°-29° C) for 24 hours prior to use.

GUIDE TO OPENING TO TRAFFIC BASED ON SURFACE AND EPOXY TEMPERATURE

The following guide is based on a temperature ratio of both road surface and epoxy adhesive. Should the road surface be at a lower temperature than that of the adhesive then adjustment for set time must be made.

MARKER ADHESIVE GUIDE

<u>Temp. F (C)</u>	<u>Set Time (hrs.)</u>
110 (43.3)	1/4 to 1/2
100 (37.8)	1/2 to 3/4
90 (32.2)	1 hr. to 1-1/2 hrs.
80 (26.7)	1-1/2 hr. to 2-1/4 hrs.
70 (21)	3 to 4 hrs.
60 (15.6)	4 to 5 hrs.
50 (10)	6 to 7 hrs.

SURFACE PREPARATION

All applications should be made on a clean dry surface that is free of dirt, dust, grease, oil or any foreign material that would prevent the proper bond of the adhesive to the surface. The surface should be structurally sound and secure. For best results it is recommended the surface be lightly sandblasted before application of the adhesive.

New Asphalt Surfaces - E-BOND 1240/1241 bonds well to weathered asphalt surfaces. It is recommended on new asphalt surfaces, a light sandblasting be utilized to remove any oil contaminants from the aggregate. It is recommended that the user test the performance of the adhesive prior to large scale applications.

New Concrete Surfaces - All curing agents should be removed by sandblasting before application of adhesives.

Do not apply epoxy adhesive or markers unless the road surface is dry.

MACHINE MIXING

Both components should be stored for a minimum of 24 hours prior to use at temperatures of 77°F (25° C). or higher. It is recommended that in-line heaters be used in automatic mixing and metering equipment to raise the temperature of the product prior to mixing and use. Much more rapid cures can be obtained if both components are heated while in the machine at 110°F (43.3° C) to 120°F (48.9° C).

The applicator is particularly cautioned to check the mixing and metering heads prior to commencement of work each day. It is important that he accurately determine that he has obtained a proper mixing ratio of 1 part of Component A to 1 part of Component B by volume. After determining that the ratio is correct, he should also determine if there is a thorough and complete blend to a uniform gray.

HAND MIXING

Accurately measure out equal amounts of Component A and Component B. Only mix the amount of material that can be used within the working life of the product. At normal temperatures it is not recommended to mix over 3 or 4 oz. (89-118 ml) at a time. Thoroughly blend both components until an even gray is obtained.

MIXING WHEN USING 22 Oz. TUBE KITS

E-BOND 1240/1241 Epoxy Standard Set Marker Adhesive is available in standard diameter caulking tubes. These caulking tubes, very easily, fit into conventional half barrel ratchet type caulking guns.

E-BOND 1240 Component A Epoxy Resin comes with a black label; E-Bond 1241 Component B Epoxy Hardener comes with a red label.

The recommended procedure is to cut the tip at the area of the full diameter of the tip. Place approximately 1" to 1 1/4" (2.5-3.18 cm) of both components on the properly prepared surface. In warmer weather it requires approximately 2 full pulls of the handles for both Components. In cooler weather, it normally requires approximately 2 1/2 pulls of the handle.

Place both beads of adhesive side by side so that they are the same length.

Use a strong sturdy putty knife and thoroughly blend and mix the adhesive, take extra precautions to insure any component A (Epoxy resin) that was laying on the surface is thoroughly mixed with the hardener. Take the same precautions to insure any Component B (Epoxy Hardener) that was laying on the surface is thoroughly mixed with the resin.

After thoroughly mixing, spread to desired thickness, place the marker in the adhesive using sufficient pressure to assure a visible bead of adhesive around the perimeter of the marker. Excessive epoxy in the front of the reflector(s) should be scraped aside. Excessive pressure on markers may result in insufficient adhesive remaining under the marker.

Protect the area from traffic etc., until the adhesive is set. Note: DO NOT STEP ON MARKERS AFTER PLACEMENT OF THE ADHESIVE. SIMPLE HAND PRESSURE IS ALL THAT IS NEEDED TO ASSURE ADEQUATE PERFORMANCE.

COVERAGE

1 gal. of E-Bond 1240/1241 Epoxy adhesive in theory should be sufficient for 100 Raised traffic markers. In practice, depending on the porosity of the surface, and the rate of application, the coverage may be as low as 60 raised markers per gallon.

Coverage for 1240/1241 for Recessed traffic markers, depending on the groove and depth of groove, can vary from 15-25 markers per gallon.

Coverage for the 22 fl. oz. kit of E-Bond 1240/1241, depending on the surface, the amount of material used, can range from 12-17 markers per kit.

Coverage rate for 8" Pexco® City Post Glue Down delineators is approximately (per mixed gallon):

8 Delineators (16 oz. of mixed epoxy) on asphalt

11 Delineators (12 oz. mixed epoxy) on concrete

Consult other delineator manufacturers for their recommended application rate.

PACKAGING

CASE / 6 of 22 oz. Tube Kits (6 tubes A & 6 tubes B)

APPROXIMATE WEIGHT 14 lbs. (6.3 kg)

CASE / 2 Gallon Unit (1 gal. 1240 & 1 gal. 1241)

APPROXIMATE WEIGHT 27 lbs. (12.2 kg)

10 Gallon Unit (5 gal. 1240 & 5 gal. 1241)

APPROXIMATE WEIGHT 128 lbs. (58 kg)

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 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.