



E-BOND 526

LIGHT-WEIGHT EPOXY GROUT



E-BOND EPOXIES, INC.
P.O. BOX 23069
FORT LAUDERDALE, FL
33307
PH: 954 566-6555
FAX: 954 566-6663
E-MAIL:
info@ebondenoxies.com

FORMULATED AND LABELED
FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

E-BOND 526 LIGHT WEIGHT EPOXY MORTAR CONFORMS TO ASTM C-881, AASHTO M-235-91 TYPE III, GRADE 3, CLASS B & C

DESCRIPTION

E-BOND 526 LW is a 100% Solids, solvent-free, MOISTURE INSENSITIVE, Epoxy Resin System.

E-BOND 526 LW Epoxy is a multipurpose epoxy suitable for a wide range of applications; bonding both structural and non-structural materials. Recommended as a wearing surface grout where weight is a serious consideration. E-Bond 526 Lo-Mod Flexible Epoxy can be applied neat and broadcast with aggregate as a topcoat to improve friction and skid-resistance.

ADVANTAGES

- Easy mixing ratio of 1-A to 1-B by volume
- Long Pot Life even at high ambient temperatures
- Moisture Insensitive
- Provides excellent adhesion to most structural materials.

PHYSICAL PROPERTIES

Type:	100% Solids, Light Weight Epoxy Grout		
Mixing Ratio:	1A to 1B by volume		
Color/Viscosity	ASTM D-2393 - Part A Resin -	White.	2000-2400 PS.
	ASTM D-2393 - Part B Hardener	Black.	1300-1600 PS.
	Ad-Mix -	Gray	
Pot Life:	Approx. 125 grams	60-70 minutes	
Bond Strength:	ASTM-C-881 14 Days	1500 PSI (10.3 Mpa) min.	
Water Absorption, 24 hours.	ASTM-D-570 %	.15	
Compressive Yield:	ASTM-D-695 PSI	3500 Min.	
Modulus of Elasticity	ASTM-D-695 PSI	90.000 Max.	
Thermal Compatibility	ASTM C-884	Passes Test	
Effective Shrinkage	ASTM C-883	Passes Test	

HOW TO USE

SURFACE PREPARATION

CONCRETE: All surfaces must be prepared to a structurally dense surface to expose coarse aggregate, and free of rust, scale, dirt, loose paint or coatings, grease, oils or any other contaminants that would prevent good adhesion.

Scraping or abrasive blasting, dry or wet, or other mechanical preparation may be needed. Blow off excess water. Surface may be damp, but not wet.

STEEL: Surfaces are to be prepared no earlier than 1 hour before application of the epoxy compound.

The surface of the steel should be clean to SSPC Surface Prep Standard SP-10 near white metal blast cleaning with a 4-mil angular profile. If for any reason, due to weather, time restraints, etc., the epoxy has not been poured within 2 hours after surface preparation, and/or if flash rusting occurs, the surface must be re-blasted to the above specifications.

THIS TYPE OF SURFACE PREPARATION IS MANDATORY.

Note: This surface preparation requirement is required to obtain the best possible bond of the epoxy compound to the properly cleaned steel. This bridge is in an aggressive environment (near sea water)

MIXING

Mixing Ratio: one Volume of Component A (White) With One Volume of Component B (Black).

For ease of application, condition E-Bond 526 LW to 75 °F (24 °C) for 24 hours prior to mixing.

The mixing container should have a flat wall and a flat bottom.

The performance of this product depends on thorough and complete blending. The mixing of Black and White to a uniform Gray without streaks assures that mixing has been completed. Mixing is very important! Due to the heavy viscosity of the material, some incorrect mixing material can result, which will result in soft spots in the mix.

The material is supplied in 2-gallon pails of component A and 2-gallon pails of component B.

EACH COMPONENT MUST BE THOROUGHLY STIRRED to ensure complete homogenous mix of the component before MATING.

After a thorough blending of the two individual components, pour the 2-gallon can of component A (White) into the mixing container. **THIS IS MOST IMPORTANT THAT THE WHITE BE Poured IN FIRST. THIS WILL THEN BE FOLLOWED BY COMPONENT B (BLACK).** Black and White produces a Gray. It is difficult to determine black streaks from gray. With the White being placed first, if incorrect mixing has occurred, White streaks will be readily visible. Thoroughly blend the two components with drill and mixing paddle, at slow speed, for approximately 2-3 minutes.

It is important, during this mixing period, that the applicator move the blades against the sidewall of the mixing container, the bottom and to ensure complete and thorough blending of the colors to an even color without streaks. **STREAKS SHOULD NOT BE VISIBLE.**

When the mixed material is removed from the mixing bucket, any white streaks that were not mixed from the bottom of the bucket must then be mixed by hand to form a uniform gray.

Mix only the quantity that can be used within the working time.

APPLICATION

Dirt or dust on the surface after surface preparation can affect the bond. Rubbing your hand over substrates will indicate if dust or powder is present. If present, it is recommended the surface be primed with a 100% Solids, Low Viscosity primer, such as E-Bond 526 Lo Mod Epoxy.

On properly prepared surfaces, the E-Bond 526 LW may be applied by margin or mason's trowel, etc.

WEARING SURFACE FOR IMPROVED FRICTION AND SKID RESISTANCE

E-Bond 526 Lo-Mod Flexible Epoxy applied neat will be used for the wearing surface. This product is a liquid with a viscosity of approximately 20-weight oil. This mix must be applied at the ratio of 2-1/2 gallons per 100 sq. ft. (or 40 sq. ft. per gal.).

SURFACE PREPARATION FOR APPLICATION OF WEARING SURFACE

If E-Bond 526 neat material is to be applied within 3 hours after the application of E-Bond 526 light weight grout, no further surface preparation will be required unless the surface has been exposed to inclement weather.

If the surface has been exposed to inclement weather, traffic or a waiting period greater than 8 hours has elapsed, a light sandblasting will be required to remove any surface contaminants

The product has a limited working time. ONCE MIXED, IT MUST BE IMMEDIATELY DUMPED AND USED.

Immediately broadcast into the 526 Lo-Mod Epoxy aggregate to surplus, when cured broom to remove excess.

Aggregates shall meet the requirements and have hardness on the Mohs scale of six or more. Aggregates shall be angular and shall consist of natural silica sand, basalt or other nonfriable aggregate approved by the Engineer and shall contain less than 0.15% moisture when tested according to ASTM C 566-97.

<u>Mesh Size</u>	<u>% Passing</u>
4.75mm / #4	100
2.36mm / #8	30-75
1.18mm / #16	0-5
600 μ m / #30	0-1

CLEAN UP

Prior to curing, E-Bond 526 LW may be removed from tools and equipment using Xylene, Toluene or Lacquer Thinner. Wash hands with soap and water.

TEMPERATURES

E-Bond 526 LW will cure at temperatures as low as 40°F. (4.4°C) providing substrate temperature be 40°F (4.4°C) and rising during the next 24 hours.

STORAGE

Store dry at 40-90°F (4.4°C - 32.2°C) The epoxy should be stored at a minimum temperature of 75°F (24°C.) for 24 hours prior to use. Storage below 75°F (24°C) will cause the product to thicken substantially, making it difficult to mix and to apply.

PACKAGING

4 Gallon Kit: 2 Gal. Component "A" (White) and 2 Gal. Component "B" (Black) per kit

CAUTIONS

E-Bond 526 LW has a limited working time when mixed in quantities of 4 gallon or more.

It is impossible in this Product Data Sheet to discuss proper Surface Preparation for all of the various substrates that the user may encounter. The user **MUST DETERMINE IF THIS PRODUCT IS SUITABLE FOR HIS INTENDED USE** and on the **SUBSTRATE** that is selected.

Do Not Thin E-Bond 526 LW Epoxy. Solvents will prevent a proper cure.

Read warnings on product package and refer to Material Safety Data Sheet (MSDS) prior to use.

CAUTION - FOR INDUSTRIAL USE ONLY: E-Bond 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

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