

EP-E500

# BROADCAST EPOXY

## 2 COMPONENT, 2 TO 1 MIX RATIO EPOXY



### PRODUCT DATA

Volumetric Ratio	2 to 1
Solids	100% (+ or - 1%)
Coverage	200-225 SF/gal. at 8 mil
Application Temperature	55-90°F
Thinning	Not Required
Pot life	10-15 min.
Working Time on Floor	20-30 min.
Cure Time	8 hours (walking) 18 hours (light traffic)
Full Cure	3 to 5 days
Critical Re-Coat Time	12 hrs.
<b>Re-Coat Time:</b>	<b>4 hrs.</b>
<b>With Accelerator</b>	
Shelf life	12 months
USDA Food & Beverage	Meets Req.
Available Colors:	
• Clear	• Tan
• Light Gray	• Beige
• Medium Gray	• White
• Dark Gray	• Black
Packaging	
2 Gallon Kits for 2 car garage	
Part A	1.33 gal.
Part B	0.67 gal.
15 Gallon Kits:	
Part A	10 gal.
Part B	5 gal.

### PRODUCT DESCRIPTION

Epoxy Plus EP-E500 Broadcast Epoxy is a voc-compliant, high solids, 2-component and designed as a base coat for color flake (chip) flooring. This application can be applied to new and existing concrete. This formula allows a typical floor to be installed within one day and provides excellent adhesion and hide to concrete in a single coat application. EP-E500 withstands up to 9 lbs of Moisture Vapor Emissions when applied to residential garage floors up to 1,000 SQFT. EP-E500 adheres to damp or dry concrete and gives ample open time for broadcasting the color flakes (chips).

### APPLICATIONS

- Garage floors
- Clean rooms
- Manufacturing facilities
- Automotive showrooms
- Commercial kitchens
- Grocery Stores
- Laboratories
- Basements
- Kennels
- Restrooms
- Locker rooms
- Aisle ways

### ADVANTAGES

- Essentially odorless
- Self-priming over properly prepared substrate
- Lifetime adhesion warranty
- VOC Compliant
- High color stability
- Withstands up to 9 lbs of Moisture Vapor Emissions
- Chemically resistant
- Can be accelerated to dry in 2 hours
- Low viscosity

### PHYSICAL PROPERTIES

Property	Value	Reference
Compressive Strength	10,800 psi	ASTM C 695
Flexural Strength	11,700 psi	ASTM D 790
Tensile Strength	8,900 psi	ASTM D 638
Bond to Concrete	350 psi	ASTM D 4541 Concrete fails at this point
Taber Abrasion	75-80 Mgs	ASTM D 4060
Flammability	Self-extinguishing	
Hardness, Shore D	84	ASTM D 2240
Flash Point	>200°F	

## TECHNICAL DATA SHEET

125 Broad Ave, Unit B13 North Bergen, NJ 07047  
(888) 361-2641 WWW.EPOXYPLUS.COM



### CONCRETE PREPARATION

Before coating is applied, concrete must be:

- Dry – No wet areas
- Clean – Contaminants removed
- Profiled – Surface must be diamond ground to a CSP (Concrete Surface Profile) rating of “2”... Roughly the feel of 100 Grit Sandpaper.
- Sound – All cracks and spalled areas repaired

Note: Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding, scarifying and scabbling are all acceptable methods.

### REPAIR CRACKS

Voids, cracks and imperfections will be seen in finished coating if the concrete is not patched correctly. Epoxy Plus Joint Filler (Crack Repair) and/or Epoxy Plus Quick Patch to fill cracks and imperfections. After the materials are cured, diamond grind patch. If another patching material is used, contact a Epoxy Plus technical representative for a compatible and approved alternative.

### CLEAN UP

EP-E500 Epoxy, while in an un-reacted state, may be cleaned up with hot water and degreaser. Isopropyl alcohol or acetone may be needed once the resin begins hardening. Lastly, a strong solvent like methylene chloride may be required if resin is nearly set up.

### MIXING

The ratio of EP-E500 is 2 to 1. That is, two parts A (resin) to one part B (hardener). Mix the following with a drill and mixing paddle.

Note: If using a drill mixer, use a low speed (not to exceed 300 rpm) to prevent air entrapment.

1. Premix 1.33 gallon of Part A for 30-45 seconds.
2. Add 0.67 gallon of Part B and mix for another 60-90 seconds.
3. EP-E500 Epoxy is designed to be immediately poured on the floor. Leaving mixed product in the container will greatly reduce pot life. Once poured out on the floor, 20-30 minutes of working time can generally be expected.

### MOISTURE VAPOR EMISSIONS WARNING

All concrete floors without effective moisture vapor barrier are subject to possible moisture vapor transmission that may cause blistering and failure of the coating system. It is the applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine vapor emissions prior to applying any coating. Epoxy Plus can supply moisture remediation products EPMVB PLUS(MOISTURE VAPOR BARRIER) that are up to 15 lbs. Epoxy Plus sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

## APPLICATION INSTRUCTIONS

Application of EP-E500 Epoxy for a nominal 8 to 16 mil coating system is applied in two coats and in one pass as a top coat. For estimation purposes, use 200 SF per gallon in either case.

1. Always apply in descending temperatures. Concrete is porous and traps air. In ascending temperatures (generally mornings) the air expands and can cause out gassing in the coating. It is safer to apply coatings in the late afternoon, especially for exterior applications.
2. Optimum ambient temperature should be between 55-90°F during application. Note: Cure times are affected by ambient and slab temperatures. Temperatures of 55°F and lower can slow cure times. Temperatures of 85°F and higher will speed up working and times.
3. Mix 2gal kit of EP-E500 using above mixing instructions.
4. Apply approximately 200 SF per gallon by immediately

pouring out on surface in a ribbon, while walking and pouring at the same time until bucket is empty. NEVER turn bucket upside down and allow to drain.

5. Using a squeegee on a pole, pull EP-E500 Epoxy over substrate. As a first coat over bare concrete, pull resin as thin as possible while still wetting out concrete and uniformly covering surface. This allows trapped air to escape more easily. To apply in a single coat over an Industrial Epoxy system, pull at about 200 SF per gallon.
6. Using a 3/8" non-shedding phenolic (plastic) core paint roller, roll coating forwards and backwards.
7. Lastly, back roll in the opposite direction as step 6.
8. **NOTE:** EP-E500 Epoxy is specifically designed to be a “Primer Coat” epoxy only, and will always need to be covered over by a full broadcast or another coat of standard 100% Solids Pigmented Epoxy or Pigmented Sealer coat.

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## CHIP/SILICA SAND BROADCAST INSTRUCTIONS

### Chip Broadcast

1. Following Step 6 above. Broadcast Color Chips/Micro Chips (at 16 lbs. per 100 sq. ft.) by tossing them into the air and allowing them to gently rain down into the wet resin.
2. Allow to cure. Then scrape the basecoat with a drywall scraper in all directions. Vacuum small pieces and dust.

### Silica Sand Broadcast

1. Following Step 6 above, gently throw the silica sand up into the air, allowing it to fall without lumping in one spot or moving the resin. Do this until the floor is totally saturated with the silica sand and the resin will not accept any more. This generally requires 1/2 to 3/4 lbs. per sq. ft.. Allow to dry for 6-8 hours.
2. Sweep floor and stone any high spots.
3. Following either method, apply seal coat of Epoxy Plus Polyaspartic 85 or Polyaspartic 85 PLUS at approx. 80 - 170. ft. per gallon. The coverage per gallon will depend GREATLY on the type of broadcast you applied. Contact Epoxy Plus Tech Support for assistance.



**KEEP OUT OF REACH  
OF CHILDREN**

## WARNING! SLIP AND FALL PRECAUTIONS

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slipresistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Epoxy Plus recommends the use of angular slipresistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Epoxy Plus or its sales agents will not be responsible for injury incurred in a slip and fall accident.

## HANDLING PRECAUTIONS

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.

## WARRANTY

Epoxy Plus products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.

## NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications.

NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY.

BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.