

SprayEZ

**Spray Equipment
and Coatings**

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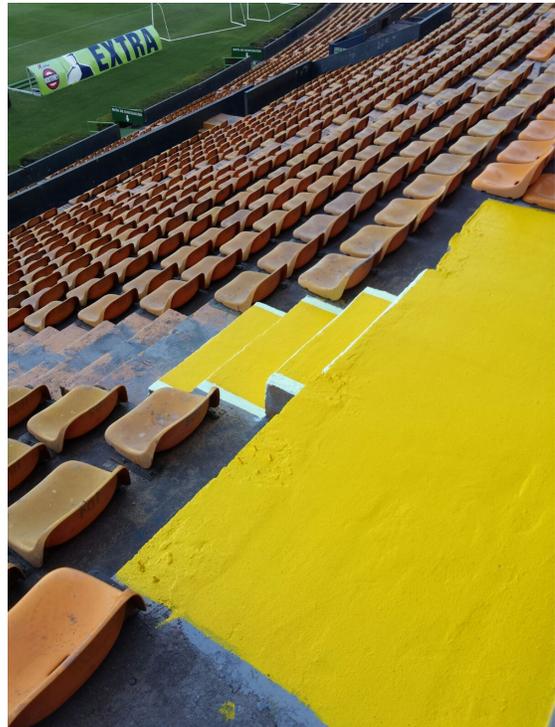
Technical Data Sheet

Epoxy-EZ

Water Based 2 Part Epoxy

Epoxy-EZ is the next version of our WBE-2. It has the same characteristics as WBE-2 with long pot life up to 8 hours after mixing A & B, fast cure times in 16 mil or less film thickness, but has a Silicone backbone built into the Hardener. This enables the Epoxy-EZ to have higher temperature better chemical, higher gloss, optically clear and better UV resistance.

Epoxy-EZ can also come with Nano size glass filler similar to WBE-2. Glass filled Epoxy-EZ has a matte finish and non-skid surface. The ratio of Resin to Hardener has changed 1/1pbv to 2 resin to 1 hardener without glass. The glass is premeasured so it can be added to the A&B mix with a jiffy mixer. Epoxy-EZ can be used on concrete, asphalt, steel, aluminum, and wood. Colors are available, simply send in a pantone, RAL, or SW color number. Surface preparation is still the same as WBE-2. Like all water based products freeze protection is required for shipping.



Please contact our technical support group for specific substrate application procedures, equipment, safety gear and clean-up kits. Refer to SDS for material and safety standard procedures.

Technical Application Data

Concrete must be fully cured and cleaned prior to any coating operation. The cleaning operation must not leave any residual detergents, acids or alkali cleaners. Concrete flooring should be prepared with shot blasting (SPCC min. 2), diamond grinding and/or machine sanding depending on the severity of the concrete surface condition.

After concrete floor is properly prepared, Epoxy-EZ self-priming material is to be applied within 45°F to 100°F. It is recommended that Epoxy-EZ be diluted up to 25% water and used as a primer coat to the bare concrete which will actively penetrate the porous surface. This primer coat should also be slightly A-Side rich to promote excellent chemical bonding for the sequentially applied base coat. This is accomplished by increasing the A-Side ratio by 10-12% PBV.

After the prime coat is dry to the touch, Epoxy-EZ is applied at a ratio of 1A to 2B PBV. For non-skid flooring, use Epoxy-EZ Glass Filled. Mix 1A to 2B then add glass filler while mixing. Mix thoroughly. Apply 8-10 mils of coating. A non-gloss finish will result. For gloss finish, top coat with the clear Epoxy-EZ at a 1A to 2B ratio.

Thorough mixing must be performed on the Hardener side containing glass prior to adding the Resin using a jiffy mixer. The ratio with Glass is 2 hardener to 1 Resin PBV. Continue mixing after the resin has been added until there is a uniform color and texture. To reduce viscosity you may add 5% water. Apply the glass filled mixture using short Knapp rollers, spray or brush. Pot life of the mixture is up to 8 hours. There is no end point on gel like conventional epoxy so do not use the mixture after 8 hours.

Recommended wet application film thickness as a primer should be 4-6 mils.
 Recommended wet application film thickness as a base coat and topcoat be 8-10 mils.
 Coverage at 8 mils is 300 sq. ft. / mixed gal.

When using Epoxy-EZ for coating steel, the substrate should be shot blasted to a sspc 4-6 mils profile. After shot blasting the substrate should be clean and dry. There should be no visible rust prior to coating. Apply 4-6 mil coating of Epoxy-EZ with the anti-corrosive zinc additive. Epoxy-EZ or Epoxy-EZ glass filled and pigments may be applied 4-6mils after the first coat dries to the touch.

Variable Adjustments

Increase or decrease up to

20% Ratio Change	Excess A-Side Increase	Excess B-Side Decrease
Potlife	Increase	Decrease
Flexibility	Decrease	Increase
Hardness	Increase	Decrease
Better solvent	Decrease	Increase
Resistance	Increase	Decrease
Acid Resist	Increase	Decrease
Adhesion	Increase	Decrease

Water Resistance	Decrease	Increase
Corrosion	Decrease	Increase

Physical Properties

Epoxy-EZ

PHYSICAL PROPERTIES

Flex Modulus	ASTM D624	500 kpsi
Tensile Strength	ASTM D412	9200 psi
Elongation	ASTM D412	18%
Heat Deflection Temperature	ASTM D648	175 F
Relative Humidity	ASTM F2170	85%
Taber Abrasion CS18	ASTM D4060	75
Mix Ratio	PBV	2:1
Pot Life	8 hrs max.	

Epoxy-EZ Glass Filled PHYSICAL PROPERTIES

Flex Modulus	ASTM D624	800 kpsi
Tensile Strength	ASTM D412	9500 psi
Elongation	ASTM D412	18%
Heat Deflection Temperature	ASTM D648	190 F
Relative Humidity	ASTM F2170	85%
Taber Abrasion CS18	ASTM D4060	75
Mix Ratio	PBV	1:2 A:B
- Mix 1A to 2B then add pre-measured amount of glass		
Pot Life	6-8 hrs max.	
Application thickness up to 16 mils		

Epoxy-EZ Metal Primer Results

Property	ASTM	Rating
Dry film thickness	D-1186	3-4 mil
Through dry	D-5895B	7.5 h
Pencil hardness	D-1186	H
Adhesion	D-3359	5A/5B
Salt spray resistance	B-117	1000 h
- Blister, field	D-714	No blister
- Scribe creep	D-1654	<1 mm
- Adhesion	D-3359	5A