

EPS HardCoat

A product of SprayEZ



Spray Equipment and Coatings Inc
850709 US Highway 17 Yulee FL, 32097
Phone: 877:772-9629

EPShardCoat is an insulating microcellular polymeric material that will withstand direct flame contact. It emits low smoke and flame spread during flame exposure making it a valuable resource for diverse fire protection enclosure applications.

It is used to protect Polystyrene from the weather while giving a rock like hardness which makes it very appealing to theme parks.

EPShardCoat PHYSICAL PROPERTIES

Fire Rating	ASTM E84	Class 1
Flex Modulus	ASTM C203	*48000 psi
Compressive Strength	ASTM D1623	*2500 psi
Tensile Strength	ASTM D1623	*1800 psi
Shear Strength	ASTM C273	*2000 psi
Shear Modulus	ASTM C273	*20000 psi
Water Vapor Transmission	ASTM E96	<1.0% perm-inch.
Water Absorption (24 hr. immersion)	ASTM C272	<0.25% by vol.
Dimensional Stability	ASTM D2126	<0.1% @-40F, <1.0% @158F, <1.2% @212F
Closed Cell Content	ASTM D2856	>*97%

Adhesion Results of Typical Substrates per ASTM D-4541 Elcometer

Concrete- Primed	>300 psi	Concrete cohesive failure; excellent bonding
Steel- Primed	>1000 psi	Excellent bonding
Wood- Primed	>300 psi	Wood failure; excellent bonding

* Property Values will be relative to a particular skin density. Values shown are for 55 PCF.

TECHNICAL APPLICATION DATA

EPShardCoat is a two component 100% solids spray formulation which does not contain VOCs. . All surfaces must be clean and free of contaminates. Application temperature ranges from 20°F to 120°F. Gel Time is 8-10 sec at 75°F with full cure in 24 hours. Use standard 1:1 high pressure plural component spray machine such as The Foamer or Graco EXP2. Functional operation temperature ranges from -40°F to 300°F. Application spray thickness may be continuous build. Foam coverage at 60 mils thickness is 33 sq. ft./ mixed gal.

Preparation of substrate surface prior to the application

of MaxPolymers is extremely important as durability is only as good as the weakest link in the coating system. A typical concrete substrate cleaning method is described herein.

Concrete must be fully cured and should be prepared with a sandblasting, shot blasting, diamond grinding or machine sanding depending on the severity of the concrete surface condition. Always power clean substrate with mild detergent or grease wax remover prior to any sanding or grinding operation. Similar preparation must be performed for metals to eliminate corrosion and provide a surface profile acceptable for bonding prior to priming.

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