



PYROTARP™ 333C EPOXY LIQUID

GENERAL DESCRIPTION

PYROTARP™ 333C EPOXY is a two-part, low-viscosity, intumescent/refractory fire retardant coating that has ultra-low flame spread and is creamy white in color. The material is flexible, even at low temperatures and will adhere to most substrates.

The product may be used as a stand-alone coating on many substrates to produce an intumescent/refractory fire barrier, or it may be used to saturate or surface-coat woven or non-woven fiberglass, carbon composites or other materials that retain their structure at temps at or above 425 °F.

In addition, PYROTARP™ 333C EPOXY protects various metals and composites made up of the fire barrier with foam/glass or foam/metal sandwiches, and offers a wide variety of uses as a waterproof, fire retardant, insulation material.

Intumescence is a char barrier that forms when a substance is subjected to fire.

PYROTARP™ 333C EPOXY swells to form both an intumescent char barrier that insulates the substrates from conducted heat, and with many substrates, most notably aluminum and glass, a refractory barrier that reflects radiant heat, thus protecting the substrates from extreme temperatures. Even when this char barrier is scraped away, PYROTARP™ 333C EPOXY will continue to intumesce several times while continuing to protect the substrate from conductive heat and when ultimately removed, the persistence of the refractory barrier provides continuing protection against more extreme temperatures, without apparent damage to the substrate. This phenomenon occurs on coatings of as thin as 2 mils; however, a five to twenty mil coating would continue to intumesce for a longer period of time.

Although the catalyst portion of PYROTARP™ 333C EPOXY is considered corrosive because of its pH, once mixed and cured PYROTARP™ 333C EPOXY is non-hazardous. It is a 100% solids system.

Combustion products generally contain no acid, irritants or other substances usually considered toxic. During combustion some carbon dioxide and carbon monoxide in small quantities may be produced. The products generally contain some organic phosphorous compounds that upon decomposition will produce phosphates that are not leachable once the product is cured.

PYROBLOK 333C is an effective coating that provides outstanding flame and fire protection in a tough durable film.

Low thickness (.010 inch) application provides outstanding performance.

PYROTARP 333C meets the following ASTM tests:

- ASTM E-84
- ASTM E-119
- ASTM E-162

TYPICAL DATA

Appearance	off white	
Viscosity, cps.	4 – 7,000	Part A
	2 – 5,000	Part B
		Mixed
Density, lbs./gal.	11.2	
Specific Gravity	1.30	
Cure; 25C		
125C		
Pot Life; hrs.	1	
Tack free time; hrs	4	
Complete cure, 25C	7 days	
Mix ratio; A/B by wt.	100:6.92	
Adhesion		
Aluminum T6061	Excellent	
Fiberglass	Excellent	
Steel	Good	
PVC	Good	
Shelf Life	1 year from date of shipment	

This data is not for specification use; specifications are available on request.

APPLICATION

Reading the Material Safety Data Sheet for this product before application is suggested.

PYROTARP™ 333C EPOXY is available in A: a Resin Blend that requires mixing with B: the Catalyst. Depending on the required hardness or softness of the coating, different catalysts and ratios apply. Mixing instructions are furnished with each shipment.

Surfaces to be coated must be dry, free of oil and grease and some substrates may require roughing the surface. Under normal ambient temperatures, the gel time (dry to touch) varies by temperature. Elevated temperatures will reduce the gel time proportionally. In general, the total curing time (where a fully solid matrix is formed) takes about one week at 70°F.

The coating can be applied by brush or roller. For optimal fire protection the coating must be a minimum of .010 inch thick. Multiple coats can be applied but allow 1 day between coatings.

Spray coating is possible using specialized sprayers that allow the resin and hardener to be mixed in the coating head as it is applied. Small batches can be spray applied but cleaning the sprayer with solvent immediately is required to prevent the coating from curing in the spray equipment. Aromatic hydrocarbon (toluene, xylene) or ketone (MEK acetone) work the best for cleaning.

PRODUCT AVAILABILITY

PYROBLOK 333C is available in:

<u>Container</u>	<u>Weight</u>	<u>Coverage at .010 inch thick</u>
1 gallon	11 lbs.	120 square feet
5 gallon pails	44 lbs.	600 square feet
50 gallon drums	575 lbs.	6000 square feet

PRICING Available upon request

FOB POINT Lowell, MA

TERMS

Net 30 Days

RETURN POLICY

Do not return waste or used containers to manufacturer. Manufacturer assumes no responsibility for application, end use, nor merchantability of products manufactured with this product.

LIMITED WARRANTY/LIMITATION OF LIABILITY

Seller warrants that its products will meet the specifications that it sets for them. Seller's responsibility under this warranty will be limited solely to replacing the products which prove defective, provided that Buyer gives Seller prompt notice in writing of said defect and satisfactory proof thereof. Product may be returned to Seller only after written authorization has been obtained from Seller. The foregoing warranty is in lieu of all other warranties, whether oral, written, express, implied or statutory.

IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WILL NOT APPLY. Technical or other advice is furnished by us solely as an accommodation and shall not increase the scope of our responsibilities or liability. Seller's warranty obligations and Buyer's remedies hereunder are solely as stated herein; replacing the product, including but not limited to, its removal and application, or for other incidental or consequential damages. This product is sold on the condition that each user of the material makes their own evaluation to determine the material's suitability for their own particular use.

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