

SG E-375-08 Marine Grade Spray Polyurea Coating



ENVIRONMENTAL PROTECTION



Product Description:

MARINE GRADE POLYUREA COATING SYSTEM

The marine grade SG E-375-08 spray Polyurea system is designed to encapsulate treated timber products to prevent preservatives from leaching into the environment and protecting the timber from abrasion and mechanical damage. SG E-375-08 spray Polyurea coating system can be used for encapsulating AZCA, ACQ, CCA and Creosote and other wood treatments for use on timber piling, lumber, plywood and poles.

SG E-375-08 contains PTMEG and has been engineered for marine environments, is self-leveling to provide a smooth surface and its longer gel time promotes better adhesion to timber products. SG E-375-08 is used in a variety of marine or non-aquatic applications and has a proven record of durability.

WHY PTMEG IS SPECIFIED?

Innovative Polyurethane Intermediates TERATHANE® PTMEG is a premium polyether glycol and is used as a soft-segment building block in high performance polyureas, polyurethanes, polyesters, and other polymers. It is available in a wide range of molecular weights (from 250 up to 2900) and provides outstanding dynamic properties, low temperature flexibility, and hydrolytic stability.



Typical end uses for TERATHANE® PTMEG includes spandex fibers (e.g. Lycra®), solid elastomers (cart wheels, belts, and rollers), as well as flexible adhesives and coatings.

Specification requirement (US NAVY):

The elastomer used in the fender skin shall be 100 percent PTMEG (polytetramethylene ether glycol) polyether Polyurea / urethane elastomer.

Polyurea with PTMEG is used in high performance systems when longevity is required in harsh environments.

Application:

SG E-375-08 is factory applied using a high pressure plural component spray system with a minimum capability of 2000 psi pressure at the spray tip or can be applied using a heated low pressure system. Standard application coverage rate is 125 to 250 mils covering approximately 15.0 to 7.5 square feet per gallon.

Available standard colors: Black, Tan, Brown, Gray

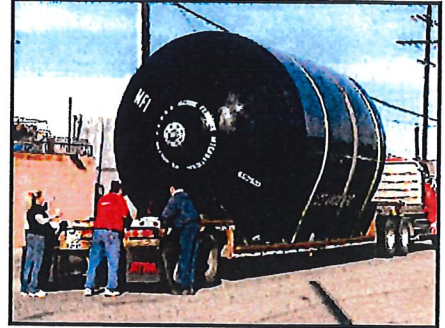


HELPING OUR ENVIRONMENT

Along with proven long term performance in marine applications, SG E-375-08 is designed to encapsulate and prevent the leaching of treating products into our waterways. SG E-375-08 is a cross linked formulation providing increased strength and durability for tough marine environments.

SG E-375-O8 POLYUREA BENEFITS

- Designed for use in harsh environments (PTMEG based product).
- History of worldwide use in a variety of marine environments from Greenland to Jakarta from cold to warm humid environments.
- The Polyurea manufacturer, Marine Fenders International, Inc. produces this product for use in their product line - Ocean Guard and Ocean Cushion, Foam-filled Fenders.
- SG E-375-O8 Polyurea will not react with environmental moisture during application avoiding compromised physical properties.
- **US NAVY** Specification requirement.



Chemical Resistance ASTM D543 (24 hour full emersion)

Rating:

E= No Effect G= Limited Effect
F= Moderate Effect P= Unsatisfactory

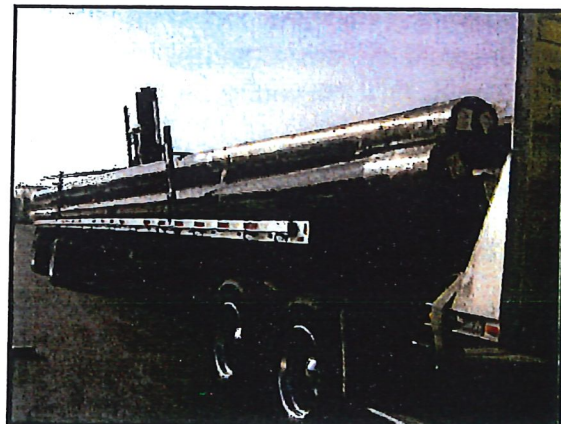
Sulfuric Acid 10%	E
Sulfuric Acid 30%	F
Citric acid 1%	E
Isopropyl Alcohol 99%	P
Aviation Fuel	G
Diesel Fuel	E
Gasoline	E
Ammonia	E
Sodium Hydroxide	E
Sodium Hypo Chlorite 5%	E
Lactic Acid	F
Tire	E
Brake Fluid	F
Sulfuric Acid (Battery, Acid)	G

Engineering Data & Physical Properties

Mixing ratio A-B	1-1
Total Solid Content	100%
Elongation (ASTM D412)	375%
Tensile (ASTM D412) (psi)	2600
Color stability (aromatic)	none
Flex-Life (ASTM D 1052) (cycles)	200,000
Taber Abrader (ASTM D 4060) 500 cycles	.094 / 1000
Tear (ASTM D 624)	520 lbs/in
Hardness (ASTM D 2240)	80-90 A
Permeability (ASTM E 96)	0.067 WVT
V.O.C Content	0%
Burn Rate (typical) (ASTM D 635)	1.52 cm/min

FIELD REPAIRS

FP-85-P repair kit can repair damage before or after installation for above waterline repairs.



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Visit our Website @

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