



ElastaFLEX CR™

CHEMICAL RESISTANT POLYUREA

Preliminary
Revised: 04-10-14

ElastaFLEX CR™ DESCRIPTION

ElastaFLEX CR™ is specifically created as a secondary containment liner for hydrocarbons including crude oil, diesel fuel, gasoline, and alcohols. This very economical polyurea exhibits very high tensile strength and elongation. ElastaFLEX CR™ is a unique blend of aliphatic and aromatic polymer chemistry with greater color/gloss retention and is more UV resistant than aromatic polyureas.

ElastaFLEX CR™ is formulated with SPI's cutting-edge Ultra Bond™ technology. SPI's advanced Ultra Bond™ chemistry is coined "the duct tape molecule". Ultra Bond™ has the unique advantage of adhering to most properly prepared organic and inorganic (new and aged) surfaces without requiring a primer. Like duct tape, ElastaFLEX CR™ gains adhesion over time.

FEATURES

- Chemical Resistant
- Liquid components can be shipped non-hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
- Superior color stability and gloss retention compared to aromatic polyurea elastomers*.
- 100% solids. No solvents. No VOCs.
- Extended gel time for better flow-out providing a smooth, more uniform finish.
- High build up to any thickness in one application.
- Compliant with FDA/USDA for incidental food contact.
- ElastaFLEX CR™ liner is very supple with minimal shrinkage.

RECOMMENDED USES

Primary & Secondary Containment

- On geotextile fabric to form a monolithic liner.
- Primary and secondary containment
- Steel and concrete tanks.
- Barge and ship holds.
- Waste water treatment facilities.
- Chemical transportation.

COLORS

ElastaFLEX CR™ is available in standard colors (*White, Sand, Light Grey, Medium Grey, and Black) Custom colors will be quoted upon request.

*Note: In continuous full-light exposure white or very light colors will change over a period of time.

Aliphatic urethane, polyurea, and other approved aliphatic topcoats can be used when long-term color stability and increased longevity in full sun exposure are of critical importance.

WET PROPERTIES @ 77°F (25°C)

Solids by Volume	100%	
Solids by Weight	100%	
Volatile Organic Compounds	0 lbs/gal (0g/l)	
Theoretical Coverage DFT	100 sq. ft. @ 16 mils/gal.	
Weight per gallon (approx.)	8.55 lbs. (3.87 kg)	
Number of Coats	1-2	
Mix Ratio	1 "A": 1 "B"	
Viscosity (cps)	A @ 85°F (29°C)	A: 850 approx.
	A @ 95°F (35°C)	A: 620 approx.
	B @ 77°F (25°C)	B: 584 approx.
Shelf Life Unopened Containers @ 60-90°F (15-32°C)	Six months	

Minimum/maximum material/container temperature to supply proportioner "A" side is 85°F - 95°F (29°C - 35°C). "B" 70°F - 80°F (24°C - 27°C)

DRY PROPERTIES @ 60 mils (1.5mm)*

Tensile Strength ASTM D 638	± 4600 psi (19.46 mpa)	
Elongation ASTM D638	± 500%	
Hardness (Shore A) ASTM D2240-81	± 87	
Hardness (Shore D) ASTM D2240-81	± 36	
Service Temperature	-60°F - +200°F (-50°C - +93°C)	
Abrasion Resistance 1 kg. 1000 rev.	CS-17	14.6 mg. lost
	H-18	88 mg. lost

CURING SCHEDULE

Gel	11 sec. (±)
Tack Free	30 sec. (±)
Post Cure**	24 hours
Recoat	30 min - 8 hours

*All cured film properties are approximate since processing parameter, admixture types, and quantities change physical properties of the cured elastomer. All samples for above tests were force cured 48 hours or aged for more than three weeks. Samples tested were neutral (untinted). It is recommended that the user perform their own independent testing.

**Complete polymerization to achieve final strength can take up to several weeks, depending on a variety of conditions or product type. The samples for tests were sprayed with Graco HXP3 @ 3,000 psi (20.85 mpa) dynamic pressure. Primaries/Hose Heat 170°F (77°C) Graco MP Fusion Gun with 29/29 mixing module and .040 ceramtip.

GENERAL APPLICATION INSTRUCTIONS

Apply ElastaFLEX CR™ to only clean, dry, sound surfaces, free of loose particles or other foreign matter. A primer may be required, subject to type and/or condition of the substrate. Consult technical service personnel for specific primer recommendations and substrate preparation procedures.

Secondary containment liner application thickness will depend on the reagent contained. Contact your SPI representative for specific recommendations.

It is recommended that ElastaFLEX CR™ be sprayed in multi-directional (north-south/east-west) passes to ensure uniform thickness.

The polyol "B" component must be thoroughly power mixed each day, prior to use. Contact a SPI technician regarding proper mixing equipment.

Follow instructions attached to "A" and "B" containers.

SPECIALTY PRODUCTS, INC., 2410 104TH Street Ct. S. Ste. D, Lakewood, WA. 98499 1-800-627-0773

www.specialty-products.com info@specialty-products.com

SPI Manufacturing/Distribution Locations: Lakewood, WA · Rowlett, TX · Anchorage, AK

© 2014 Specialty Products, Inc.

RECOMMENDED EQUIPMENT AND SETTINGS

- Standard 1:1 ratio, heated, plural-component equipment developing a minimum of 2500 psi (8.34 mpa) dynamic pressure with heating capabilities to 175°F (79°C) will adequately spray this product. These include Graco 20/35, 20/35 Pro, PMC GH-25-3, GH-40-35; PHX-25, PHX-40, H-3500, HV-20/35, Reactor E-XP1, E-XP2, H-25, H-40, H-XP2, and H-XP3. Gun models include Fusion MP, Gap Pro, Graco Fusion Air Purge, Glass Craft P2, P2 Elite, P2 Elite "C", P3, GX-7 DI, and GX-7-400 gun.
- Pre-heater temperature should be at 160-170°F (71-76°C).
- Hose temperature should be at 160-170°F (71-76°C). A hose thermometer inserted under the insulation near the gun should read a minimum of 145-155°F (63-68°C).
- Physical properties will be enhanced when sprayed at higher pressure (3500 psi or more) (24 mpa), utilizing an impingement mix gun such as the MP Fusion or GX7-DI.

GENERAL SAFETY, TOXICITY & HEALTH DATA

Safety Data Sheets are available for this coating material. Any individual who may come in contact with these products should read and understand the M.S.D.S. CHEMTREC EMERGENCY NUMBER 1-800-424-9300

WARNING: Contact with skin or inhalation of vapors may cause an allergic reaction. Avoid eye contact with the liquid or spray mist. Hypersensitive persons should wear protective clothes, gloves and use protective cream on face, hands and other exposed areas.

CLEAN UP: Use DPM, NMP, and Polyclean.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION: Use a respirator approved for isocyanates and organic vapors. If you are not sure or not able to monitor levels, or if you are spraying in an enclosed/indoor area use MSHA/NIOSH approved supplied air respirator. Consider the application and environmental concentrations when deciding if additional protective measures are necessary.

INGESTION: Do not take internally. It is believed that ingestion of polymeric isocyanates would not be fatal to humans, but may cause inflammation of mouth and stomach tissue.

LIMITATIONS

- This product is for professional use only.
- Apply ElastaFLEX CR™ when surface and air temperatures are above 40°F (5°C) and rising, and 7°F (-13°C) above dew point.

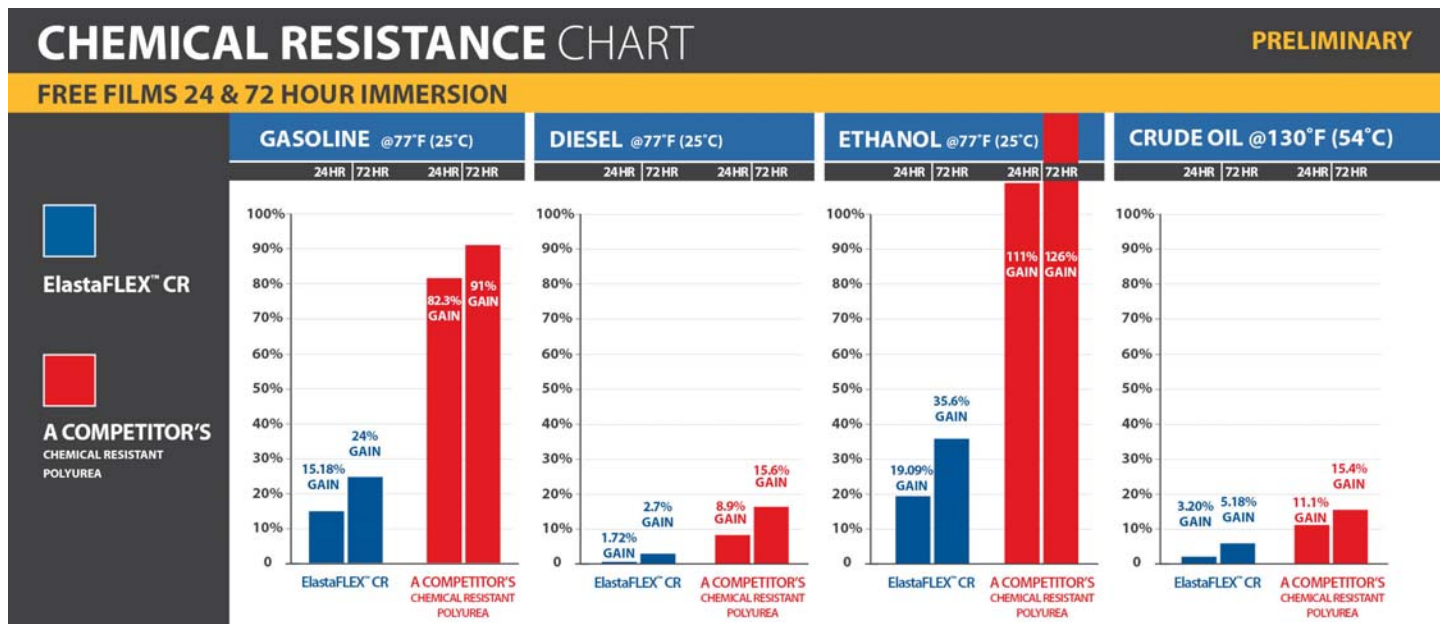
- Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspected, CO₂ created pressure can develop. Do not attempt to use contaminated material.
- Undried air exposed to liquid components will reduce physical properties of the cured coating.

Note: The material supplied is two components (Component "A"/Component "B") used to formulate ElastaFLEX CR™. The quality and characteristics of the finished polymer is determined by the mixture and application of the two components.

WARRANTY & DISCLAIMER

Specialty Products, Inc. has no role in the manufacture of the finished polymer other than to supply its two components. It is vital that the person applying this product understands the product, and is fully trained and certified in the use of plural-component equipment. Specialty Products, Inc., an Alaska corporation, warrants only that the two components of this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product are dependent upon the proper mixture and application of the components by the applicator. There are no warranties that extend beyond the description on the face of this instrument. **Failure to apply the product within the parameters stated on this document shall void the warranty.** SPECIALTY PRODUCTS, INC. MAKES NO WARRANTY OF MERCHANTABILITY OF THE PRODUCT OR OF FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE. Specialty Products, Inc. makes no warranty as to the quality of any product modified, supplemented, tinted, or altered in any way after it leaves the manufacturing plant. Specialty Products, Inc. does not warrant that this product is suitable for use as a liner for potable water containers. Use of this product in a potable water container could be hazardous to health if it is improperly processed or applied. The liability of Specialty Products, Inc. for any nonconformity of the product to its technical specifications shall be limited to replacement of the product. The sole exclusive remedy of buyer, which is to have Specialty Products, Inc. replace any nonconforming product at no cost to buyer, is conditioned upon buyer notifying Specialty Products, Inc. or its distributor in writing of such defect within thirty days of the discovery of such defect. Specialty Products, Inc. shall not be liable for any direct, incidental, or consequential damages resulting from any breach of warranty. The data presented herein is intended for professional applicators or those persons who purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer. The aforementioned data on this product is to be used as a guide and is subject to change without notice. The information herein is believed to be reliable, but unknown risks may be present. Specialty Products, Inc. makes no warranties, expressed or implied, including patent warranties or warranties of merchantability or fitness of use, with respect to products or information set forth herein. Nothing contained herein shall constitute permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.

Accordingly, the buyer assumes all risks whatsoever as to the use of these materials and buyer's exclusive remedy as to any breach of warranty, negligence, or other claim shall be limited to the purchase price of the materials. Failure to adhere to any recommended procedures shall relieve Specialty Products, Inc. of all liability with respect to the materials and the use thereof.



SPI - The Single Source Solution Since
1974 Serving the Plural-Component Industry

Product & Equipment Technical Assistance
24 hours – 7 days a week (800) 627-0773



WEBSITE