



ALL TECH INDUSTRIES

Ultra COAT-EE™

Extreme Elongation

DESCRIPTION

Ultra COAT-EE™ is a state-of-the-art, high performance, sprayed, plural component, pure polyurea elastomer. This system is based on amine-terminated polyether resins, amine chain extenders and MDI prepolymers. It provides a flexible, resilient, monolithic membrane with enhanced water and chemical resistance.

FEATURES AND BENEFITS

- 20 Year Limited Warranty
- 100% Solids (No Solvents or VOC's)
- 100% Ultraviolet (UV) Resistant
- NFPA and UBC Class I Fire Rating Compliant
- ASTM E84-97a
- Spray applied with unlimited thickness in a single application
- Resistant to solvents and mild Acids / Bases
- Forms a seamless membrane that can be handled and walked on ten (10) seconds after application.
- Rapid set allows for vertical applications
- Hydrophobic, therefore unaffected by damp, cool surfaces during application
- Extended tack time allows deep surface penetration thus providing superior adhesion
- High temperature stability up to 250° F (121 °C) and intermittent temperatures up to 300° F (148 °C)
- High Abrasion Resistance and Zero Static Conductivity
- Non-Skid Coating is available as an option

RECOMMENDED APPLICATIONS

- Spray applied coating for internal and external tanks, pipe, pipelines, steel and concrete structures, silos, piping, and other substrates.
- Spray applied liner for frac pits, coke pits, cooling ponds, dikes, wastewater, waste treatment, landfill, irrigation systems, and marine equipment.
- Encapsulation material for asbestos, lead paint or other dry hazardous materials.
- New or existing subgrade, slabs, walls, and columns.
- New construction projects
- Rehabilitation projects
- Earthen containment lining used with or without Geotextile.

COLORS

The standard colors are battleship gray, desert tan or black.

It should be noted that Ultra COAT-EE™ is an aromatic polyurea, therefore, as with all aromatics over a period of time a slight color change as well as superficial oxidation will occur. Aliphatic urethane and other suitable topcoats can be used where long-term aesthetics are of critical importance.

TECHNICAL SPECIFICATIONS

WET PROPERTIES @ 77°F (25°C)	
Solids by Volume	100%
Solids by Weight	100%
Volatile Organic Compounds	0 lbs/gal (0g/l)
Weight per gallon (approx.)	8.55 lbs. (3.87 kg)
Number of Coats	1-2
Mix Ratio	1 "A": 1 "B"
Viscosity (cps) @ 77° F (25 °C)	A: 450 approx. B: 400 approx.
Shelf Life @ 60-90°F (15-32°C)	Six months

DRY PROPERTIES* @ 60 mils (1.524 mm)	
Tensile Strength ASTM D 412	4,075 psi (28.0 mpa) +/- 5%
Elongation @ 77°F (25°C)	1,014.8% ± 50%
Hardness (Shore A)	(0s) 81 (10s) 60
Hardness (Shore D)	(0s) 39 (10s) 19
100% Modulus ASTM D 412	780 psi (5.3 mpa) +/- 5%
300% Modulus	1,240 psi (8.5 mpa) +/- 5%
Tear Resistance ASTM D 624	400 PLI (70 KN/m)
Service Temperature	-60°F - +200°F
	(-50°C - +93°C)
Moisture Vapor Transmission ASTM E-96-80	0.089

**All dry film properties are approximate since processing parameters, as well as added mixture types (i.e. colors) and quantities will change physical properties of cured elastomer. All samples for above tests were force cured or aged for more than three weeks.*

CURING SCHEDULE	
Gel	10 Seconds (± 3 seconds)
Tack Free	8 Seconds (± 2 seconds)
Post Cure**	48 Hours
Recoat	0 - 48 Hours

***Complete polymerization to achieve final strength can take up to several weeks, depending on a variety of conditions.*

Ultra COAT-EE™ is a spray-applied coating with exceptional elongation properties. It is delivered by ATI's patented specialized equipment, which is capable of producing dynamic pressures in excess of 6000 PSI at 300° (F).

