

DESCRIPTION

EPL™ 9 UB is a slow set, self-leveling elastomer. Unlike most polyureas, EPL™ 9 UB is available 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, EPL™ 9 UB with ULTRA BOND™ gains adhesion over time.

FEATURES

- 100% solids, no solvents, and zero VOCs.
- May be hand mixed, static mixer processed, or sprayed.
- Gel time 9 minutes at 77°F (25°C) approximately.
- Compliant with FDA/USDA for incidental food contact.

RECOMMENDED USES

- Self-leveling base coat.
- Spot repair of pre-existing coatings.
- Deck repairs.
- Crack repairs.
- Hard to reach places not accessible to spray equipment.
- Control joint filler.
- Warehouse floor repairs.

COLORS

EPL™ 9 UB is available in SPI standard Black. Note: In continuous full-light exposure, white or very light colors will yellow over a period of time. EPL™ 9 UB is available in a high-pigment, UV inhibited formulation for stand-alone applications, such as roofs and containment liners. Aliphatic urethane and other suitable topcoats can be used where long-term color stability and increased longevity in full sun exposure are of critical importance.

PACKAGING

This product sold in standard 110 gallon drum and 550 gallon tote sets. Available in other container sizes, contact sales representative for further information. Non-standard containers may require a longer lead time.

DRY PROPERTIES*

Tensile Strength ASTM D 638	± 1,700 psi (12 mpa)
Elongation ASTM D638	± 330%
Hardness (Shore A) ASTM D2240	90 ± 5
Hardness (Shore D) ASTM D2240-81	40 ± 5
100% Modulus ASTM D412	800 psi (6 mpa) ± 5%
300% Modulus ASTM D412	1,580 psi (44 mpa) ± 5%
Service Temperature	-40° - +200°F (-40° - +93°C)

*All cured film properties are approximate since processing parameter, ad-mixture 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. It is recommended that the user perform their own independent testing.

CURING SCHEDULE

Pot Life	± 9 min
Tack Free	± 1 hour
Final Cure**	3 - 4 days

Elevated temperatures will speed up the curing process.

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

The samples for tests were sprayed with Graco HXP3 @ 2500 psi dynamic (17 mpa). Primaries/Hose Heat 170°F (77°C,) MP Fusion gun with 29/29 40 mixing chamber. Test results from SPI.

WET PROPERTIES

Solids by Volume	100%
Solids by Weight	100%
Volatile Organic Compounds	0 lbs./gal (0 g/l)
Theoretical Coverage DFT	100 sq. ft. @ 16 mils/gal
Weight per gallon (approx.)	8.85 lbs. (4 kg)
Number of coats	1 or more
Mix Ratio (by volume)	1 "A" : 1 "B"
Viscosity @77°F (25°C)	A: 450 ± 100 cPs B: 650 ± 100 cPs
Shelf Life Unopened Containers @ 60 - 90°F (15 - 32°C)	Six Months

Minimum material/container temperature for application is 70°F (21°C).

TEST INFORMATION

ABRASION RESISTANCE ASTM D4060 1000 g - 1000 cycles	H-18 wheel	20.5 mg loss
	H-10 wheel	33 mg loss
	H-22 wheel	46.4 mg loss
	CS-17 wheel	19.1 mg loss
WEATHERABILITY (black) 3000 hours (QUV)	no evidence of failure	

MIXING & THINNING

Mix at 1:1 ratio for two minutes.

Due to very short pot life, all materials must be used immediately after mixing.

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

GENERAL APPLICATION INSTRUCTIONS

Apply EPL™ 9 UB to only clean, dry, sound surfaces free of loose particles or other foreign matter.

A primer may be required; subject to type and condition of the substrate. Consult technical service for specific primer.

Read and observe all precautions, instructions, and limitations that are included with all containers of EPL™ 9 UB.

EPL™ 9 UB is a "slow-set" (minutes) polyurea and may behave differently in the presence of moisture than "fast-set" (seconds) polyurea.

Undried air exposed to liquid components will reduce physical properties of the cured coating.

LIMITATIONS

This product is for professional use only.

This product must be stored at temperatures between 60° - 90°F (15° - 30°C).

Apply EPL™ 9 UB when surface and air temperatures are above 40°F (5°C) and the surface temperature is at least 5°F (3°C) above dew point and rising.

Liquid temperature in drums during application 70° F (21 °C) – 100°F (38°C).

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.

Note: The material supplied is a two component system (Component "A"/Component "B") which is used to formulate this product. The quality and characteristics of the finished polymer is determined by the mixture and application of the two components.

GENERAL SAFETY, TOXICITY, & HEALTH

Safety Data Sheets are available for this coating material. Any individual who may come in contact with these products should read and understand the S.D.S. **CHEMTREC EMERGENCY NUMBER 1-800-424-9300 INT'L 1-703-527-3887.**

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 exposed areas.

CLEAN UP: Use DPM, NMP, and Polyclean.

EYE PROTECTION: Safety eye wear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield.

SKIN PROTECTION: Personal protective equipment for the body should be selected based on the task being performed;

the risks involved, and should be approved by an industrial hygiene specialist before handling this product. Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION: Harmful if inhaled and may cause allergy or asthma symptoms. 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.

WARRANTY & DISCLAIMER

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