



DESCRIPTION

EPL™ 1.5 is a high-strength, self-leveling, semi-rigid polyurea elastomer. Due to its high tensile strength, tear strength, and tensile modulus, EPL™ 1.5 is very resistant to deformation with over 400% elongation. This optimal balance of physical properties makes EPL™ 1.5 an ideal choice of polymers for filling or repairing construction joints, random cracks, joint faces, and spalls. EPL-1.5™ is formulated to be processed through a SPI Synergy Series proportioner such as the LPG™.

FEATURES

- 100% solids, no solvents, and zero VOCs.
- Extended tack time to allow deep surface penetration.
- Fast-set, 1:1 ratio, return to service in less than one hour.
- Compliant with USDA/FDA requirements for incidental food contact.

RECOMMENDED USES

- To fill or repair control joints, random cracks, and shallow spalls on horizontal concrete surfaces.
- Earthen containment lining used with or without geotextile fabric.
- Roof systems (metal, concrete, wood, etc.).
- Protective elastomer for sprayed-in-place urethane foam.
- EPL™ 1.5 can be spray-applied with or without broadcast aggregate to provide a durable resilient flooring system.

COLORS

EPL™ 1.5 is available in SPI standard colors (Neutral, Medium Grey, Black, and Tan). Note: In continuous full-light exposure, white or very light colors will yellow over a period of time. EPL™ 1.5 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 10, 30, 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.

COVERAGE RATES: Linear Feet Per Gallon					
INCHES	1.0	1.25	1.5	2.0	2.5
1/8"	154'	123'	103'	77'	61'
3/16"	102'	82'	68'	51'	41'
1/4"	77'	62'	51'	38'	30'
3/8"	51'	41'	34'	25'	20'

DRY PROPERTIES

Service Temperature	-50°F - +200° (-45°C - +93°C)
*Cured film properties sprayed with high pressure; heated proportioner	
Tensile Strength ASTM D638	± 3,300 psi (23 mpa)
Elongation ASTM D638	± 450%
Hardness (Shore A) ASTM D2240-81	85 ± 5
Hardness (Shore D) ASTM D2240-81	35 ± 5
Test samples were sprayed through SPI Twinshot at 3300 psi. Primaries/Host Heat 170° (77°C) Graco MP gun.	
*Cured film properties sprayed with low pressure; unheated proportioner	
Tensile Strength ASTM D638	± 1,500 psi (10 mpa)
Elongation ASTM D638	± 440%
Hardness (Shore A) ASTM D2240-81	75 ± 5
Hardness (Shore D) ASTM D2240-81	30 ± 5

*Test samples were sprayed through LPT™ Proportioner with SPI Lock N'Load™ gun; SPI polyurea nucleation kit.

*Cured film properties poured with low pressure; unheated proportioner	
Tensile Strength ASTM D638	± 3,000 psi (21 mpa)
Elongation ASTM D638	± 400%
Hardness (Shore A) ASTM D2240-81	85 ± 5

*Test samples were sprayed through LPT™ Proportioner with SPI Lock N'Load™ gun; SPI polyurea nucleation kit.

*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.

Note: Currently, this product is manufactured exclusively in our Lakewood, Washington facility. Therefore, please allow additional transit time and additional transportation charges to certain geographic areas.

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.)	8.90 lbs. (4.05 kg)
Number of coats	1 - 2
Mix Ratio (by volume)	1 "A" : 1 "B"
Viscosity	A: 400 ± 50 mPa.s B: 550 ± 50 mPa.s
Shelf Life Unopened Containers @ 60 - 90°F (15 - 32°C)	Six Months

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

CURING SCHEDULE

Gel	± 1 1/2 min.
Tack Free	± 5 - 10 min.
Post Cure**	24 hour
Recoat	0 - 24 hours

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.

GENERAL APPLICATION INSTRUCTIONS

Apply EPL™ 1.5 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™ 1.5.

EPL™ 1.5 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 (15–32°C).
- Apply product 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 containers during application of product should be 75°F (24°C) minimum, 85°F (29°C) optimum, and 95°F (35°C) maximum.
- Product and hose temperature during application should be 85°F (29°C).
- Avoid moisture contamination in containers. Containers should not be released if contamination is suspected. CO₂ created pressure can develop. Do not attempt to use contaminated material.
- 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.
- Undried air exposed to liquid components will reduce physical properties of the cured coating.

For the most up to date technical data sheet and/or safety data sheet (SDS) visit our website at specialty-products.com.

RECOMMENDED EQUIPMENT SETTINGS

- Lock 'n Load™ gun with 12" mixer.
- Standard 1:1 ratio, LPG™ equipment developing a minimum of 50 - 500 psi (0.3 - 3.4 mpa)
- Substrate temperature should be a minimum of 50°F (10°C).

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. Causes eye damage/irritation. Avoid eye contact with liquid or spray mist. Hypersensitive persons should wear protective clothes, gloves and use protective cream on face, hands and other exposed areas.

CONTAMINATION: Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspected, carbon dioxide created pressure can develop. Do not attempt to use contaminated material.

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. Ensure adequate ventilation. If the respirator is the sole means of protection, use a full-face supplied respirator. Use respirators and components tested and approved under appropriate government standards such as OSHA 29CFR 1910.134, NIOSH (US), or CEN (EU). 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.



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