DRAGON JACKET INSULATION

DJEPL™

TECHNICAL DATA SHEET

UPDATED 7/25/2019

DESCRIPTION

DJEPL™ is a slow set, self-leveling 100% pure polyurea elastomer.

FEATURES

- 100% Solids
- No solvents or VOC's
- Gel time 4 minutes at 77°F (25°C) approximately
- Compliant with FDA/USDA for incidental food contact

DRY PROPERTIES

Tensile Strength ASTM D638	± 2,300 psi (16 mpa)
Elongation ASTM D638	± 246%
Hardness (Shore A) ASTM D2240	99 ± 5
Hardness (Shore D) ASTM D2240-81	59 ± 5
100% Modulus ASTM D412	800 psi (6 mpa) ± 5%
300% Modulus ASTM D412	1,580 psi (44 mpa) ± 5%
***Exposure Temperature** **Test performed in a dry, static environment.*	-40°F to +200°F (-40°C to +93°C)

CURING SCHEDULE

Pot Life	± 4 min
Tack Free	± 20 min
Re-coat	3 min - 12 hrs
Post Cure**	72 hours

***Complete polymerization to achieve final strength can take up to several days or weeks, depending on a variety of conditions or product type. 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. (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 (approximate)	8.87 lbs. (4 kg)
Number of Coats	1 or more
Mix Ratio (by volume)	1 "A" : 1 "B"
Viscocity @ 77°F (25°C)	A: 500 ± 50 cPs B: 1000 ± 100 cPs
Shelf Life of Unopened Containers @ 60°F to 90°F (15°C to 32°C)	6 Months

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

COLORS

DJEPL™ is available in Black.

Note: In continuous full light exposure, white or very light colors will yellow over a period of time. DJEPL™ is available in a high pigment, UV inhibited formulation. Additional additives are also available where long-term color stability and increased longevity in full sun exposure are of critical importance.

GENERAL SAFETY, TOXICITY & HEALTH

Safety Data Sheets are available for this foam material. Any individual who may come in contact with these products should read and understand the SDS.

CHEMTREC EMERGENCY NUMBER
NATIONAL: 1-800-424-9300
INTERNATIONAL: 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 or NMP.

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: Respiratory protection is MANADATORY! The vapors must not exceed the TLV (0.02 part per million). Harmful if inhaled and may casue allergy or asthma symtoms. 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.

FIRE HAZARD: Fires involving “A” or “B” components may be extinguished with carbon dioxide, dry chemical, or inert gas. Application of large quantities of water spray is recommended for spill fires. Personnel fighting the fire must be equipped with NIOSH approved self contained breathing apparatus.

CLEANING OF SPILLS OR LEAKAGE: Cover the area with an inert absorbent material such as clay or vermiculite and transfer to metal waste containers. Saturate with water but do not seal the container with the isocyanates and water mixture. The area should then be flushed with large amounts of water, in the case of the “B” component, or 5% aqueous ammonia, in the case of the “A” component. Dispose of these materials in compliance with federal, state and local regulations.

CAUTION: Isocyanates will react with water and generate carbon dioxide. This could result in rupture of closed containers.

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