



SPI ENVELO-POUR™ SFC I 2.0 CG

POLYURETHANE POUR FOAM - CLOSED CELL
PRELIMINARY

DESCRIPTION

SPI ENVELO-POUR™ SFC I 2.0 CG is a two-component, rigid polyurethane foam system. Designed for pour foam applications where constant flow characteristics and even density distributions are preferred. Its inherent fast initiation and slow rise times make it suitable for pouring with plural component equipment or hand mixing and pouring into place.

FEATURES

SPI ENVELO-POUR™ SFC I 2.0 CG “A” component is a polymeric isocyanate containing reactive isocyanate groups. The “B” component is a combination of polyols, catalytic agents and HFC-245fa blowing agent. The HFC-245fa, third generation blowing agent, offers zero ozone-depletion technology to help protect the environment.

RECOMMENDED USES

- General purpose pour applications
- Moldings
- Sculptures
- Flotation devices
- Refrigeration panels

CERTIFICATIONS

SPI ENVELO-POUR™ SFC I 2.0 CG foam has met and passed Coast Guard requirement under 33 CFR 183.114. SPI ENVELO-POUR™ SFC I 2.0 CG is manufactured by Specialty Products, Inc. in accordance to License Agreement with Bayer Material Science LLC, this product was formerly manufactured by Bayer Material Science LLC as Proform SFC I 2.0 Pour.

SURFACE BURNING CHARACTERISTICS

ASTM E84	CLASS I
Flame Spread	< 15
Smoke Development	< 300
Nominal Thickness (inches)	5.50
NOTE: The flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.	

TYPICAL PHYSICAL PROPERTIES

Viscosity @ 77°F (25°C)	“A” 200 ± 50 cps “B” 750 ± 100 cps
K-Factor: ASTM C518-02	< 0.165 initial
Core Free Density ASTM D1622	1.9 - 2.1
Compressives: ASTM D1621 Parallel to Rise Perpendicular to Rise	28 psi 24 psi
Tensile Strength: ASTM D1623 Parallel to Rise Perpendicular to Rise	28 psi 24 psi
Water Absorption ASTM D2842	.0125 - 0.155 lbs./ft. ² 0.2 - 0.25 oz./ft. ²
Dimensional Stability: ASTM D2126 (14 days @ 158°F, 95% RH) Closed Cell Content	+ 3.5%
Closed Cell Content: ASTM D2856	> 92%
Storage Temps	60° - 80°F (15° - 27°C)
Shelf Life (unopened)	* 6 months
Mixing Ratio (volume)	1 : 1
* When continuously stored and maintained at above temperatures	

REACTIVITY PROFILE

Cream Time	38 - 48 sec.
Tack Free	3 - 5 min.
Gel	2 - 3 min.
Rise	3 - 5 min.

Tests may vary depending on type of equipment, equipment settings, and environmental conditions.

STORAGE & HANDLING

Maintain storage area for materials between 60 - 80°F at all times. Open drums with caution to prevent loss of blowing agent and potential personal chemical contamination.

PROCESSING EQUIPMENT

The pour equipment used to apply the liquid components shall be of the heated, airless type capable of supplying each component with $\pm 2\%$ of the mixing ratio by volume (50 parts A to 50 parts B [1:1]) and maintaining a temperature of the mixed components at the gun of 120°-130°F. Optimum component pouring pressures and temperatures will vary as a function of the type of equipment utilized, material system used, ambient and substrate conditions, and the specific application. Thorough, intensive mixing of the components at the gun, either by mechanical, hydraulic, or air action is essential to producing acceptable foam quality. Ideal material drum temperatures for pouring should range from 65° to 80°F.

CAUTION: Extreme care must be taken when removing and reinstalling drum transfer pumps so as NOT to reverse the "A" and "B" 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**

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: Respiratory protection is **MANDATORY!** The vapors must not exceed the TLV (0.02 parts per million). 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.

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.

WARRANTY & DISCLAIMER

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