

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.

DID YOU KNOW??

SPI manufactures a complete portfolio of rigid spray and pour polyurethane foam components in densities ranging from .5 to 45 lbs per cu. ft.

INCLUDING

- » CLASS 1 FLAME AND SMOKE
- » IGNITION BARRIER RATED
- » ROOFING & STRUCTURAL
- » CONCRETE LIFTING/SLAB JACKING FOAMS
- » COAST GUARD COMPLIANT FLOTATION
- » TOOLING, MOLDING, and TAXIDERMY
- » FAST SHIPPING AVAILABLE FROM OUR MANUFACTURING FACILITIES IN ANCHORAGE, CHICAGO, DALLAS & SEATTLE



All of the above foams and **SPI ENVELO-POUR™** can also be poured using the SPI portable low pressure LPG proportioner.

<< [Click for video](#)

TYPICAL PHYSICAL PROPERTIES

Viscosity @ 77°F (25°C)	“A” 200 ± 50 mPa.s “B” 950 ± 150 mPa.s
K-Factor: ASTM C518-02	< 0.165 initial
Core Free Density ASTM D1622	1.9 - 2.2
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

CONTAINER SIZES

This product sold in standard 100 gallon drum and 500 gallon tote sets. Available in other container sizes, contact sales representative for further information. Non-standard containers may require a longer lead time.

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.	

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.

LIMITATIONS

This product is for professional use only.

This product must be stored at temperatures between 60° - 90°F (15° - 32°C).

Liquid temperature in containers during application is 70° - 100°F (21° - 38°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.

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.

Not to be installed within two inches (2") of heat emitting devices, where temperatures is in excess of two hundred degrees (200°F).

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 by the person applying polymers.

For latest technical data sheet revision visit our website at www.specialty-products.com.

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: 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.

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

Specialty Products, Inc. has no role in the manufacture of the finished polymer other than to supply its two components. It is vital that the person applying this product understands the product, and is fully trained and certified in the use of plural-component equipment. Specialty Products, Inc., an Alaska corporation, warrants only that the two components of this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product are dependent upon the proper mixture and application of the components by the applicator. There are no warranties that extend beyond the description on the face of this instrument. Failure to apply the product within the parameters stated on this document shall void the warranty. SPECIALTY PRODUCTS, INC. MAKES NO WARRANTY OF MERCHANTABILITY OF THE PRODUCT OR OF FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE. Specialty Products, Inc. makes no warranty as to the quality of any product modified, supplemented, tinted, or altered in any way after it leaves the manufacturing plant. Specialty Products, Inc. does not warrant that this product is suitable for use as a liner for potable water containers. Use of this product in a potable water container could be hazardous to health if it is improperly processed or applied. The liability of Specialty Products, Inc. for any nonconformity of the product to its technical specifications shall be limited to replacement of the product. The sole exclusive remedy of buyer, which is to have Specialty Products, Inc. replace any nonconforming product at no cost to buyer, is under the condition that the buyer notifies Specialty Products, Inc. or its distributor in writing of such defect within thirty days of the discovery of such defect. Specialty Products, Inc. shall not be liable for any direct, incidental, or consequential damages resulting from any breach of warranty.

The data presented herein is intended for professional applicators or those persons who purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer. The aforementioned data on this product is to be used as a guide and is subject to change without notice. The information herein is believed to be reliable, but unknown risks may be present. Specialty Products, Inc. makes no warranties, expressed or implied, including patent warranties or warranties of merchantability or fitness of use, with respect to products or information set forth herein. Nothing contained herein

shall constitute permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent. Accordingly, the buyer assumes all risks whatsoever as to the use of these materials and buyer's exclusive remedy as to any breach of warranty, negligence, or other claim shall be limited to the purchase price of the materials. Failure to adhere to any recommended procedures shall relieve Specialty Products, Inc. of all liability with respect to the materials and the use thereof.



SPI The Single Source Solution Since 1974
Serving the Plural-Component Industry

Product & Equipment Technical Assistance
24 hours - 7 days a week 800 627 0773



SPI Website

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SPI Media



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