



PATRIOT 202G POUR FOAM

RIGID POLYURETHANE FOAM

PRODUCT DESCRIPTION

Patriot Pour 202G is a two component pour-in-place closed-cell, rigid, monolithic polyurethane foam insulation. This product can be formulated in a variety of densities, upon request, to accommodate a broad range of applications. All Patriot Pour 202G systems are blown with HFC-245fa and contains no ozone-depleting chemicals.

BUILDING AND FIRE CODES

Patriot Pour 202G used as insulation material on building interior applications must be protected by a 15-minute rated thermal barrier or other construction assembly specifically permitted by model building codes.

USES

COLD STORAGE: Patriot Pour 202G is the insulation of choice for maintaining the rigid climatic conditions of many cold storage buildings.

TANK INSULATION: Patriot Pour 202G is an excellent insulation for hot and cold storage vessels.

Fire Hazard Classifications*

SURFACE BURNING ASTM E-84/UL 723		FLAME SPREAD CLASSIFICATION	
Flame Spread	25	NFPA CLASS	A
Smoke	450	UBC CLASS	1

*These numerical flame spread ratings are not intended to reflect hazards presented by this or any other material under actual fire conditions.

Liquid Component Properties

PROPERTY	Component A	Component B
Color	Dark Brown	Amber/Brown
Viscosity 25°C (cps)	200 +/- 100	950 +/- 100
Specific Gravity 25°C	1.24	1.23
Mix ratio by volume (A/B)	50/50	50/50

Processing Characteristics

PROPERTY	72°F (HAND MIX)	POUR
Cream Time	Regular 20-25 sec.	Regular 10-14 Sec.
Rise Time	70-79 sec.	30-40 sec.
Tack Free	On Rise	45-70 sec



PATRIOT FOAM™

Nominal Cured Physical Properties

PROPERTY	ASTM TEST METHOD	DENSITY ³ 2.0
Sprayed-in-place Density	D-1622	2.15
R-Value (1-inch thickness)	C-518	6.15
Compressive Strength	D-1621	28 psi
Tensile Strength	D-1623	49 psi
Open Cell Content Permanence	D-6226	94.0%
Moisture Vapor	E-96	1.98 Perms

This information is intended only as a guide for design purposes. The values shown are the average values obtained from laboratory prepared samples and results may vary with application conditions, equipment and technician.

Typical density for pour foam is 2.0 pcf.

The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors

<u>Dimensional Stability Properties</u>				
<u>ASTM D-2126</u>				
DAYS	°F	°C	%R.H.	AV
07	158	70	100%	+1.5%

SHELF LIFE

Shelf life of Patriot Pour 202G is 6 months from the date of manufacture when stored in original unopened containers at temperatures between 50° - 75° F. Temperatures above 75° F may decrease shelf life.

FREIGHT CLASSIFICATION

Liquid Plastic Material -- NOIBN

CAUTION

The use of foamed plastic in interior applications on walls or ceilings may present an unreasonable fire hazard unless the foam is protected by an approved, fireresistive thermal barrier which has a finish rating of not less than 15 minutes.

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PATRIOT FOAM™

Processing Guide

DESCRIPTION AND GENERAL USE

Patriot Pour 202G systems are light density pour polyurethane insulations designed to be fluid applied to construction surfaces to effect a permanent, monolithic and dimensionally stable thermal insulation.

Patriot Pour 202G systems are a sophisticated plural component building product which should be applied only by trained and manufacturer approved insulation experts familiar with the properties of this material.

Patriot Pour 202G systems are specifically designed for construction applications where the end use ambient temperature range will be maintained between -100°F and 225°F. When considering any other use for this product, consult **Patriot Foam & Coatings™ Inc.** for specific application recommendations.

SUBSTRATE PREPARATION

For optimum results, surfaces to receive Patriot Pour 202G should be clean and dry, free of dirt, oil, solvent, grease, loose particles, peeling coating and other foreign matter. Untreated ferro-metallic substrates should be sandblasted in accordance with SSPC-SP6. Sandblasted surfaces should be primed immediately with an approved primer.

Galvanized and stainless steel surfaces should be treated with an appropriate wash primer prior to the application of Patriot Pour 202G.

Porous substrates such as wood and concrete may not require priming if surfaces are clean and dry with less than 10% moisture content. **FOR BEST RESULTS ON SURFACES WHERE MOISTURE CONTENT CANNOT BE DETERMINED OR CONTROLLED, PRIMING IS RECOMMENDED.** Consult **Patriot Foam & Coatings™, Inc.** for specific application requirements.

SUBSTRATE TEMPERATURE

Patriot Pour 202G systems may be applied to surfaces with temperatures as low as 40 deg. in most instances. Please consult with Patriot Pour technical representatives for certain requirements.

AMBIENT AIR TEMPERATURE

Regular
40 - 90°F

EQUIPMENT

Proportioning equipment shall be manufactured by Gusmer, Graco, PMC or Glas-Craft. Mixing ratio by volume is 50 parts "A" to 50 parts "B". Equipment shall be heated airless type, capable of maintaining 120°F to 140°F mixed material at the pour gun. Optimum pouring temperature will vary as a function of substrate and ambient conditions.

APPLICATION

When changing between different resin systems, flush adequate amount of material through the gun to clear hose lines of previous material. Application of pour foam requires specialized gun adapter parts.

CLIMATIC CONDITIONS: No pouring should be done when moisture is present in the form of rain, dew or relative humidity greater than 80%, or when there is wind in excess of 15 mph.

PROTECTIVE COATING

Patriot Pour 202G, when applied to exterior weathering surfaces, must be top coated with an approved elastomeric coating. All coatings shall be applied in accordance with **Patriot Foam & Coatings™, Inc.** or other coating manufacturer's instructions.

SPECIAL NOTE

*Particular attention must be paid to coating selection in applications where a vapor drive may be present. Consult **Patriot Foam & Coatings™, Inc.** technical service personnel for specific system recommendations.*

STORAGE

Both liquid components of Patriot Pour 202G systems should be stored in original unopened containers at temperatures between 50°F and 75°F Note: Storage for prolonged periods of time at high temperatures may alter the reactivity profile of the product. Additionally, storing the

B component at increased temperatures or in direct sunlight for prolonged periods may cause a build up of pressure in the storage vessel. Use caution in opening containers of PATRIOT 202G POUR FOAM. Containers should be opened slowly to allow the release of any pressure buildup.

PATRIOT FOAM & COATINGS™, INC. TECHNICAL SERVICE PERSONNEL SHOULD BE CONSULTED IN ALL CASES WHERE APPLICATION CONDITIONS ARE MARGINAL.



Safety, Health & Toxicity Data

A Material Safety Data Sheet (MSDS) has been prepared on the Patriot Pour 202G systems. All personnel who will come in contact with the product should read and understand the MSDS.

PROTECTIVE EQUIPMENT

Since the Patriot Pour 202G systems are atomized into a very fine particle distribution during pour application, it is essential that maximum effort is made to protect the pour mechanic and others near the workplace from undue exposure. Component "A" systems are polymeric isocyanate and, as such, can be very sensitizing, particularly from the standpoint of **VAPOR INHALATION**. Some other ingredients may be sensitizing from the stand-point of **SKIN CONTACT OR EYE CONTACT**.

VAPOR INHALATION

The best form of protection against isocyanate or potentially sensitizing vapors in the workplace is a fresh air supply. Numerous manufacturers, including the 3M Company and MSA, make full face fresh air masks. For maximum protection, we recommend use of NIOSH/MSHA approved self-contained breathing apparatus with a full-face piece operated in a positive pressure mode. In well-ventilated application conditions, the use of Type C organic vapor cartridge respirators may be acceptable.

SKIN CONTACT

To prevent excessive skin contact with the sprayed product, the use of fabric overalls and fabric gloves is recommended.

EYE CONTACT

Wear a full face mask or OSHA-compliant protective goggles.

PROTECTION OF THE WORKPLACE

Overspray from Patriot Pour 202G systems can carry considerable distances and attention should be given to the following:

1. Post warning signs a minimum of 100 feet from the work area.
2. Cover all intake vents near the work area.
3. Minimize or exclude all personnel not directly involved with the pour application.
4. No welding, smoking or open flames.
5. Have CO₂ or other dry chemical fire extinguisher available at the jobsite.
6. Provide adequate ventilation.

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FIRST AID CONSIDERATION

Vapor inhalation problems are characterized by coughing, shortening of breath and tightness in the chest. Anyone exhibiting these types of symptoms should be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, **SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY**.

Skin contact with liquid components can result in a rash or other irritation. Wash any affected skin area with clean water. Wipe residual liquid from the skin with a clean cloth, then wipe the affected area with a 30% solution of rubbing alcohol. Follow the alcohol wipe with repeated washings using soap and water. If a rash or other irritation develops, **SEE A PHYSICIAN**.

Eye contact with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, eyes should be flushed with water for an extensive period. **SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY**.

The information herein is believed to be reliable, but unknown risks may be present. Patriot Foam & Coatings™, Inc. warrants only that the material shall be of merchantable quality; this warranty is in lieu of all other written or unwritten, expressed or implied warranties, and Patriot Foam & Coatings™, Inc. expressly disclaims any warranty for a particular purpose, or freedom from patent infringement. Accordingly, Buyer assumes all risks whatsoever as to the use of these materials and Buyer's exclusive remedy as to any breach of warranty or negligence claim shall be limited.