

## **FOAM IT POUR FOAM (Part # 105612)**

**Description:** This product is a low viscosity, pour in place polyurethane foam system. The 1:1 mixing ratio makes it ideal for small quantity hand mixing and conventional dispensing equipment. This system is designed as a pour in place floatation / insulating foam. It conforms to MIL-P-21929 B Class 1 for marine floatation. At a nominal 1.8 pounds per cubic foot density it produces a high yield foam while maintaining excellent physical properties. As an insulating foam it is excellent for applications requiring a liquid applied product that will flow into recesses and hard to fill voids. Examples are structural laminates, freezers, coolers, truck bodies.

### **Typical Process Properties:**

Hand mix	1:1 ratio by volume
Mix time	15-20 seconds
Gel Time	1:30 – 2:00 minutes
Expansion	25X (1 cubic foot per quart)
Rise time	2:45 – 3:15 minutes
Tack Free time	2:45 – 3:15 minutes
Cure time	4 hours

Please note that these times are influenced by mix efficiency, temperature of the components, ambient conditions and the thickness of the foamed mass.

### **Typical Cured Properties:**

<b>Property</b>	<b>Test Method</b>	<b>Value</b>
Core Density	ASTM D-1622	1.8 pounds / cub. Ft
Closed Cells	ASTM D-1940	92%
K factor, aged	ASTM C-177	0.14
Compressive Strength	ASTM D-1621	35 psi
Tensile Strength	ASTM D-1623	48 psi
Shear Strength	ASTM C-273	33 psi
Dimensional Stability	ASTM D-2126	+5%

All values related to the core density and all tests are run parallel to the direction of rise unless otherwise noted.

Shelf life is one year of manufacture when stored in original and unopened container. These materials should be stored between 60 and 85 F.

## **MIXING AND APPLICATION INSTRUCTIONS.**

### **Equipment needed:**

1. An electric or air motor capable of producing 2000 rpm or higher; and fitted with a high shear mixer blade, such as a propeller blade or paint mixer available in most hardware stores.
2. Plastic or paper buckets or pails for mixing. The containers should be of a type that can accurately measure volume.
3. Mixing sticks.

**Preparation:**

The size or volume of the cavity should be measured or estimated; and the amount of foam required calculated. For example:

CAVITY SIZE	FOAM REQUIRED
1 quart (57.75 cubic inches)	28 cc (1.3 fl. oz)
1 gallon (231 cubic inches)	112 cc (5.2 fl oz)
7.48 gallons (1 cubic foot)	823 cc (38.2 fl oz)

Using the ratio prescribed for the system to be used, calculate the amounts of each component necessary to fill the cavity. For example: for a cavity two gallon in size, about 10.4 fl. oz of foam will be needed. With the mix ratio of 1:1, 5.2 fl. oz. of each component will be required.

**Procedure:**

Measure the proper amount of component A into a container. Measure the proper amount of component B into the same container. Stir vigorously the materials together for approximately 15 to 20 seconds, taking care to scrape sides of mixing container to incorporate all unmixed material. If large quantities are being mixed, the electric mixer referenced in the Equipment section should be used at maximum rpm. After mixing, pour the mixture into the cavity immediately.