TotalBoat Flotation Foam - 2 LB Density -- Tech Data Sheet

PREPARATION:

FOAM PREPARATION: Before mixing this product, several considerations must first be addressed:

• TEMPERATURE: TotalBoat Flotation Foam should be mixed and applied at a warm room temperature, 75-80°F is optimum. If the material or environmental conditions are too cool, the polyurethane will shrink back after rising, losing much of its insulating properties and flotation strength.

• PREPAREDNESS: This product must be poured immediately after a quick mixing. The area to be filled must be accessible and prepped ahead of time. Drilling holes in advance may be required for proper accessibility and application. For proper bonding, the surface should be clean and free of contaminants. Be sure the substrate you are pouring the foam into will not be compromised by the foam's thermal reaction, which can reach temperatures nearing 130°F.

• OVERFLOW RELIEF: TotalBoat Flotation Foam will expand tremendously by volume. In doing so, it can exert as much as 5 psi of pressure in contained areas. This is enough pressure to lift the deck off a boat when poured into cavities without proper venting. It may be necessary to cut overflow vents over large surface areas such as decks. This can be accomplished easily with a hole saw.

APPLICATION:

1. Clean the surface thoroughly. Remove any water, oil, grease, dust, or other contaminants before starting.
2. Ensure products are within the proper application temperature range, and the substrate can safely handle an exothermic reaction up to 130°F.
3. Combine resin and hardener (100:100 by volume or 100:109 by weight) into a sufficiently sized mixing pot. Accuracy is very important when measuring each component.
4. Mix thoroughly for 25 seconds. Timing is important.
   •• In hot conditions over 80 degrees, mixing time may only be as little as 15 seconds before expansion begins — mix dilligently, and be ready to pour.
5. Pour foam.
6. Foam will start expanding 10-20 seconds after mixing and will expand for about 5 minutes (in 70-80°F conditions).
7. Once cured, the foam can be overcoated with more foam, epoxy resin, or polyester resin.

PROPERTIES:

Molded Density:	3.3 pcf
Compressive Strength:	38 psi
Closed-Cell Content:	> 94%
Water Absorption:	≤ .06 lbs./sq. ft.
Solvent Resistance:	Excellent
Mold and Mildew Resistance:	Excellent
Maximum Service Temperature:	200ºF
Flotation:	75 lbs./quart, 300 lbs./gallon (admixed)

APPLICATION DATA:

Mix Ratio:	100:109 (by Weight) 100:100 (by Volume)
Cream Time:	45 seconds
Gel Time:	235 seconds
Tack-Free Time:	380 seconds
Rise Time:	400 seconds
Free Rise Core Density:	2.1 pcf
Yield:	2 cubic feet (2-Quart Kit), 8 cubic feet (2-Gallon Kit)
Application Temperature:	60-85ºF (75-80ºF is optimal for yield and cure/working times)

PHYSICAL DATA:

Color:	Transparent brown liquid (resin and activator)
Components:	2 - Resin and Activator
Units of Measure:	2-Quart Kit, 2-Gallon Kit
Storage:	50-95ºF - DO NOT ALLOW TO FREEZE
Shelf Life:	6 months from date of manufacture
Weight:	9.4 lbs./gallon (resin), 10.2 lbs./gallon (activator)
Flotation:	75 lbs./quart, 300 lbs./gallon (admixed)

REVISION DATE: May 3, 2018

TOTALBOAT