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How to use AeroMarine Polyurethane Pour-In-Place 2# Foam

Physical Properties:

Parallel to Rise Compressive Strength: 40 psi

Tensile Strength: 30 psi

Shear Strength: 30 psi

Flexural Strength: 50 psi

****Always wear a respirator or self-contained breathing apparatus when working with pour foam. ****

Do NOT spray! This is NOT a sprayable foam.

Material

AeroMarine pour-in-place polyurethane foam is a two part, 2 lbs. per cubic foot density foam designed for use in filling cavities and voids for positive flotation. 2 lbs. pour foam is also an excellent insulator for use around refrigerators and freezers and can be sanded into any shape once cured. 2 lbs. polyurethane pour-in-place foam can be covered with polyester resin mat and woven roving or epoxy resin with cloth, to give a strong and durable finish.

Mixing

2 lbs. pour-in-place urethane foam is mixed in a 1:1 ratio. Mix only small amounts at a time. Mixing time is approximately 20 -30 seconds. Working time is one minute. The 2 lbs. pour foam will fill about one cubic foot per quart of mixed liquid at 72 F. If the foam is mixed at a lower temperature, it will NOT expand to its maximum capacity. More pour foam will be needed to complete the job. If it is hotter than 72F, the 2 lbs. foam may expand very quickly and erratically.

Application

AeroMarine pour-in-place 2 lbs. foam is designed for use in filling cavities and voids. It cannot be free formed and therefore must be contained on all sides in order to completely fill the void. If a release off the surface is required, a polyethylene sheet such as a garbage bag should be used due to the excellent adhesive quality of the foam.

Boat Hull Example

When filling a boat hull between stringers; mix a cup of each foam component in a clean plastic container. *Do not use a wax, paper or wood container or mixing tools because these materials contain moisture which will contaminate the foam!* Mix rapidly for 20 - 30 seconds and pour into the deepest part of the cavity. If the floor board is not glassed in place, wrap a poly garbage bag around it and place it on top of the stringers. The foam will expand upwards, hit the floor board and start to fill the remainder of the cavity. Simply repeat this procedure until the cavity is filled and glass the floor board in place.

****Do NOT use with inflatables and/or canvas!****

Clean Up

The "A" part of the foam cleans up with acetone and the "B" part with water. Due to the adhesive quality of the foam, keep the mixed product off everything except the job itself. *Do not get the pour foam on your shoes or clothing because it will not come out!*



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Tips

- Everything (foam, tools, containers and ambient temperature) must be at 72F before you start using the foam.
- Shake Part "B" well for 30 seconds before pouring.
- Only mix small quantities of Part "A" and Part "B" at one time.
- Heat the cavity the foam is to be poured into, if it is cold to the touch.

AeroMarine 2# Density Polyurethane Pour Foam Features:

- (1) Low viscosity
- (2) Convenient volumetric mix ratio
- (3) Rapid set time
- (4) No odor
- (5) Easily carved and machined
- (6) Excellent base for epoxy/polyester fiberglass
- (7) Readily accepts paints, stains, urethane colorants, and finishes
- (8) Approvable under U.S. Coast Guard Regulation # 33 CFR 183.114

This system expands to a foam approximately 20-25 times the liquid volume. As a rule of thumb, a 2-gallon kit will fill about 8 cubic feet of space. If 2 lbs per cubic foot is not dense enough, we also stock higher density foam.

****NOTE:** Pour in Place foam expansion is directly related to the temperature of everything involved (i.e. foam, cavity/mold, tools, containers, ambient temperature). Too hot (above 72F) or too cold (below 70F) and the foam will not expand as designed.

The resultant room temperature cured plastic Pour in Place foam has these properties:

Cured Density: 2 lbs/ cubic foot

Compressive strength: 40 psi

K-factor: 0.22

R- Value: 7 per inch

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