

X-30 Polyurethane Foam



Tips

- Do **NOT** combine 'X-30' Foam with any other brands of foam.
- 'X-30' can be fiberglassed with TAP Polyester and Epoxy Resins. Many other foams (Styrofoam or polystyrene) will dissolve when coated with a polyester resin.
- Shrinkage is caused by the mix ratio being incorrect or by inadequate mixing.
- Inadequate mixing creates large coarse cells, causing water absorption when environment is wet.
- Stir/shake individual components before measuring.
- Open caps slowly to release any pressure.
- 'X-30' foam yield may vary due to size, temperature, and configuration of cavity.
- 'X-30' must be protected from sunlight when used in an exterior application. Latex paint will provide adequate protection.
- 'X-30' Foam is resistant to petroleum products when fully cured and can be used in bilges. Pour no more than 12" of foam thickness per 4-hour period and protect from excessive heat or flame.
- Component temperatures over 70°F will dramatically reduce the time before foaming begins.
- Use caution when encapsulating metal tanks. Small voids in the foam may accumulate water which cannot evaporate and will accelerate corrosion (especially on aluminum).
- TAP recommends eye protection, gloves and old clothes or a Tyvek suit which TAP carries, while working with X-30.

Available Kits	Foamed Volume in Cubic Feet (approximate)	Flotation at (approximate)
Quart Kit	1	60 lb
One-Half Gallon Kit	2	120 lb
* 2-Gallon Kit	8	480 lb
* 10-Gallon Kit	40	2400 lb

Drum Kit Prices upon Request
 * Mixing quantities larger than 1/2 gallon requires a power mixer and experience with foam properties.

Estimating Volume Requirements

Determine cubic feet (volume) needed to fill area with 'X-30' Foam by using this formula:

$$\text{length} \times \text{width} \times \text{height} = \text{volume}$$

Example: A rectangle (or square), such as a box, measuring 18" x 24" x 36" = 15,552 cubic inches.

One cubic foot (12" x 12" x 12") contains 1728 cubic inches. (15,552 divided by 1728 equals 9 cubic feet)

To determine volume in an irregular area, fill with water (or other measurable substance) to measure gallons needed. Convert determined gallons to cubic feet (7½ gallons per cubic foot) and divide number of gallons in area by 7½ to establish cubic foot volume needed. Area to be foamed must be **completely dry** before filling with 'X-30' Foam.

Major Uses

- **Flotation**
Boats, barges, docks, and floats
- **Reinforcement**
Add strength and rigidity
- **Insulation**
Thermal and sound insulation
- **Void Filling**
Light weight, fills irregular space
- **Display**
Super light weight stage props
- **Safety**
Buoyancy
- **Packaging**
Conforms to any shape
- **Encapsulation**
Protection from impact, shock, water

Technical Data

Physical

Core Density	2.0 - 2.1 lbs per cu ft
K-Factor (BTU/hr-ft²F)	.145
R-Value	5.6 per inch
Closed Cell Content	90 - 93%
Compressive Strength	25 - 30 psi
Tensile Strength	30 - 40 psi
Shear Strength	25 - 30 psi
Water Absorption (gms/cc)	.020
Water Vapor Transmission	3.0 perms
Oil Resistance	no change

Dimension Stability % Volume Change

-20°F • 7 days	-0.8%
160°F • 7 days (dry)	+2%
160°F • 100% R.H. 7 days	+6.8%

Buoyancy • One cubic foot will support 60 pounds.

Maximum Service Temperature

Humid Conditions: **158°F** Dry Conditions: **200°F**

Note: Elevated temperature can cause expansion.



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