

FOAM-iT![®] 10 SLOW

10lb. Density Rigid Polyurethane Foam



www.smooth-on.com

PRODUCT OVERVIEW

FOAM-iT![®] 10 SLOW is a slower version (longer working time and cure time) of our regular FOAM-iT![®] 10 rigid foam. Mix ratio is a convenient 1A:1B by volume. **Pot life (cream time) is 3.5 minutes.** Mixture will expand 6 times original volume with uniform 10 lb. cell structure. **Tack free in 20 minutes, handling strength in 1 hour, full cure in 4 hours at room temperature.** FOAM-iT![®] 10 SLOW is designed for large-pour applications and can be used for a variety of industrial, art-related and special effects applications. Foam can be pigmented to achieve various color effects using SO-Strong[®] color tints. Cured rigid foam can be sanded, machined, drilled, etc. Foam can also be primed and/or painted.

PROCESSING RECOMMENDATIONS

PREPARATION...

Preparation – Store and use at room temperature (73°F/23°C). Environmental humidity should be as low as possible. Good ventilation (room size) is essential. This product has a limited shelf life and should be used as soon as possible. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk.

TECHNICAL OVERVIEW

Mix Ratio: 1A:1B by volume

Mixed Viscosity (cps): 400 (ASTM D-23932)

Pot Life (Cream Time):
3.5 minutes (73°F/23°C) (ASTM D-2471)

Tack-Free Time: 20 minutes (73°F/23°C)

Handling Strength: 1 hour (73°F/23°C)

Cure Time: 4 hours

Specific Gravity (g/cc): 0.15 - 0.17 (ASTM D-1475)

Specific Volume (cu. in./lb.): 150-175 (ASTM D-1475)

Lbs./Cu. Foot = Kgs./Cu. Meter: 10 lb/ft³ = 160 kg/m³

Approx. Volumetric Expansion: 6 times

Color: Beige

Compressive Strength (psi): 325 (ASTM D-2566)

* Value measured after 7 days at 73°F/23°F

Applying A Release Agent – These foams will stick to just about anything. A release agent is necessary to facilitate demolding when casting into or over most surfaces and will extend mold life. **Use a release agent made specifically for releasing urethane foams such as Ease Release[®] 2831** available from Smooth-On or your Smooth-On distributor. **Do not use a silicone based release agent.** A liberal coat of release agent should be applied onto all surfaces that will contact the foam.

IMPORTANT: To ensure thorough coverage, lightly brush the release agent with a soft brush over all surfaces. Let the release agent dry for 30 minutes.

Because no two applications are quite the same, a small test application to determine suitability for your project is recommended if performance of this material is in question.

MEASURING & MIXING...

Liquid urethanes are **moisture sensitive** and will absorb atmospheric moisture. Mixing tools and containers should be clean and made of metal, glass or plastic. Materials should be stored and used in a warm environment (73°F/23°C).

FOAM-iT![®] 10 SLOW is measure and mixed in a 1A:1B ratio

by volume. After dispensing the correct amounts of Parts A and B into a mixing container, **mix thoroughly for 90 seconds.** Stir quickly making sure that you scrape the sides and bottom of the mixing container several times. Be careful not to splash low viscosity material out of the container. Remember, foams cure quickly. Do not delay between mixing and pouring. If color tinting using SO-Strong[®] color tints, add color to Part B and mix thoroughly before adding Part A.