

SYNTHO-PLUG™

THRU HULL REPAIR PLUG



Description

Syntho-Plug™ is a urethane impregnated, water-activated foam plug used to temporarily repair hull damage to ensure a safe trip home. It is initially pliable to insert into void and quickly hardens to seal the void, reducing water intake from 280 GPM to less than 1 GPM. Works with fiberglass, steel, wood or aluminum boats, in freshwater, brackish water, or saltwater, and can be applied above or below the water line.

Application Instructions

1. Put on supplied gloves. Remove Syntho-Plug from foil pouch and dunk into water for 5 seconds. Squeeze Syntho-Plug while submerged in water.
2. Twist Syntho-Plug into hole.
3. Using gloved hand, firmly press Syntho-Plug flat against the hull, creating a mushroom effect.
4. While holding one hand with constant pressure against damaged area, use other hand to smooth the outer edges of Syntho-Plug onto hull. Note: Syntho-Plug will feel warm to the touch while it cures/hardens. This is expected and is not harmful.

Storage Conditions

For ideal shelf life, store in a cool, shaded area at an ambient temperature of 72°F (23°C). Do not expose to temperatures above 110°F (44°C) or below 40°F (5°C). Syntho-Plug is packaged within a hermetically sealed foil pouch to protect it from atmospheric moisture. Because Syntho-Plug cures when exposed to water, or the humidity in the air, care must be taken in handling the sealed bags to prevent puncturing or scuffing. If the protective foil pouch is punctured, the Syntho-Plug will be exposed to atmospheric moisture which will cause the Syntho-Plug to cure within the foil bag.

Shelf Life

NRI provides a 24 month shelf life if Syntho-Plug is stored in a cool, dry place and the protective foil pouch is free from puncture damage.

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Physical Properties

Color: Foam - Yellow, Urethane - White
Minimum Use Temperature: 32°F (0°C)
Maximum Use Temperature: 300°F (149°C)
Cure Time: 1 minute at 75°F (24°C)
Micro-controlled, Pre-impregnated

Mechanical Properties

Hardness - Shore D

5 Minutes at 77°F (25°C): 45
3 Minutes at 52°F (11°C): 40
7 Minutes at 36°F (2°C): 40

Item #	Description
SP635	Syntho-Plug 2.5" Repair Plug
SP945	Syntho-Plug 3.25" Repair Plug

NRI
Innovative Composite Solutions