

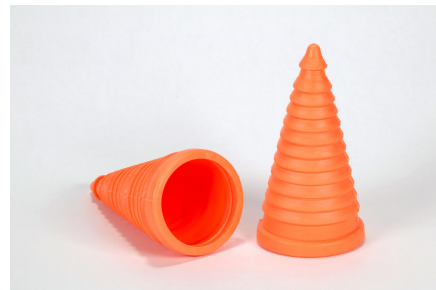
# FORESPAR®

## PERFORMANCE PRODUCTS

### Sta-Plug® Mini™ Emergency Plug

PN: 150112

The Emergency Plug that Grips™



Introducing Sta-Plug® Mini™, Forespar's new form fitting emergency plug. A soft cone shaped design allows it to easily fill the irregular shapes of hull impact breaches, as well as any round hole leak from a hose or through-hull. Unique edge gripping **riblets** help hold the plug in a hole, keeping water out.

The **riblets** help Sta-Plug® Mini™ conform to the shape of the hole, sealing a leak near the edge where a tight fit is crucial, and holding the plug more securely in place. It's The Emergency Plug that Grips™!

Using the Sta-Plug® Mini™ could not be any easier! Simply squeeze the Sta-Plug® Mini™ into any hole or hose. You can push it into a hole by hand or using a tool.

Intended for temporary emergency use with continuous monitoring only, it gives the skipper greater peace-of-mind to allow them to focus on getting the boat to safety.

Made from high strength elastomer composites (rubber-like), Sta-Plug® Mini™ will remain soft and ready to go for years and will not mold or swell up like conventional wood plugs.

- **Made from strong elastomer composites not susceptible to mold or swelling.**
- **Bright color allows it to be quickly located in an emergency.**
- **Dimensions: 4" (10cm) high, 2" (5cm) diameter at base.**
- **Made right here in the USA.**
- **NOT INTENDED FOR FUEL LEAKS.**

**Sta-Plug® Mini™** Suggested list price: \$19.95 per Twin Pack Pair\* Shipping Weight: 2 oz/Twin Pack

**Full-size Sta-Plug® #150110** Suggested list price: \$21.95 per Each\* Shipping Weight: 8 oz/ Each

\*2019 price

***"When time is critical, you need emergency equipment that works. Forespar makes good equipment." -- Mike, in Tampa, FL***

# Sta-Plug® Mini™ Emergency Plug

## PN: 150112

### Why should you care?

Pumps alone cannot save you!! A 1.5" hole in your boat, only 2 feet below the waterline would fill a 50 gallon drum in 50 seconds. This is 2x what a many pumps can handle. And 50 gallons weighs over 400 pounds of lost flotation. You can plug that hole in 3 seconds with a Sta-Plug®!

### Size:

Cone shaped 4" (10cm) high, 2" (5 cm) diameter at base.

Volume: .74 Cubic Inches (12 cc).

Weight: 1 oz (28 g).

### Plugging Ability:

Circular Hole Size: 1-1/2" (38mm) diameter maximum.

Multiple Sta-Plug® Mini™ can be combined for larger holes.

### Usage Guidelines:

Squeeze by hand and fully insert into hole or breach. Twisting or pushing the -Plug® Mini™ may help insert the device deeper into the hole.

The Sta-Plug® Mini™ will work up to 10 feet below the waterline so long as the plug is fully inserted into the hole on installation and secured with tape or lashing.

Because Sta-Plug® Mini™ is an emergency repair and damage control product it must be continuously monitored while in use, and is for temporary use only.

### Safe Storage:

Store away from heat or flame in an area inaccessible to children and pets.

Shelf life is 10+ years when stored properly and away from sunlight and UV degradation.

### Operating Temperature Range:

Minimum: -130 °F (-90°C) Maximum: 225°F (107°C).

### Chemical Resistance:

The Sta-Plug® Mini™ will not suffer any undue effects from limited exposure to gasoline, diesel fuel, or common marine and automotive oils and lubricants.

### Composition:

**Plug:** Elastomer composite.

**Appearance and odor:** Uniform elastomer composite (rubber-like) solid structure of varying colors with slight vinyl-like odor.

### Flammability:

Elastomer composites, like all organic materials, will burn if exposed to a sufficient heat source.

Melting point: 400° - 450°F (204° - 230°C).

Flash point: Greater than 500°F (260°C).

Extinguishing media: Dry chemical; Water; Carbon dioxide.

Emissions: If ignited, elastomer composites can produce rapid flame spread, intense heat, dense black smoke, and toxic gases.



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**Why should you care? Pumps alone cannot save you!!**

Stopping or slowing the incoming water is critical to saving your vessel. This chart shows how your pump is quickly overwhelmed by a fairly small hole or breach.

A 1.5" hole in your boat, only 2 feet below the waterline would fill a 50 gallon drum in 50 seconds. This is 2x what a many bilge pumps can handle.

And 50 gallons weighs over 400 pounds of lost flotation.

<b>BOAT FLOODING RATES (gallons per minute) &amp; BILGE PUMP OVERLOAD FACTOR</b>							
DEPTH OF HOLE BELOW WATERLINE	DIAMETER OF OPENING (HOLE)						
	1" (25mm)	1.5" (38mm)	2" (51mm)	2.5" (64mm)	3" (76mm)	3.5" (89mm)	4" (102mm)
1' (30cm) 1600 GPH Pump = 26 GPM	20	44 1.7x	79 3x	123 4.7x	177 6.8x	241 9.3x	314 12.1x
2' (61cm) 2000 GPH Pump = 33 GPM	28	62 1.9x	111 3.4x	174 5.3x	250 7.6x	340 10.3x	444 13.5x
3' (91cm) 2000 GPH Pump = 33 GPM	34	77 2.3x	136 4.1x	213 6.5x	306 9.3x	417 12.6x	544 16.5x
4' (1.2m) 2000 GPH Pump = 33 GPM	44	99 3x	176 5.3x	274 8.3x	395 12x	538 16.3x	702 21.3x

<b>BOAT FLOODING RATES (liters per minute) &amp; BILGE PUMP OVERLOAD FACTOR</b>							
DEPTH OF HOLE BELOW WATERLINE	DIAMETER OF OPENING (HOLE)						
	25mm	38mm	50mm	65mm	75mm	90mm	100mm
30cm 6000 LPH Pump = 100 LPM	76	167 1.7x	299 3x	466 4.7x	670 6.7x	912 9.1x	1189 11.9x
60cm 7600 LPH Pump = 127 LPM	106	235 1.8x	420 3.3x	659 5.2x	946 7.5x	1287 10.1x	1681 13.2x
90cm	129	291 2.3x	515 4.1x	806 6.3x	1158 9.1x	1579 12.4x	2059 16.2x
1.2m	167	375 3x	666 5.2x	1037 8.2x	1495 11.8x	2037 16x	2657 20.9x

<b>Sta-Plug® Mini™ CHEMICAL RESISTANCE</b>			
FLUID	RATING	FLUID	RATING
Acetone	C	Milk	A
Diesel Fuel	B	Mineral Oil	A
Ethyl Alcohol	A	Nitric Acid	A
Ethylene Glycol	A	Olive Oil	A
Gasoline	B	Power Steering Fluid	A
Gear oil	A	SAE 10W-40 Oil	A
Hydrochloric Acid	A	Sea Water	A
Isopropyl Alcohol	A	Silicone grease	A
JP-4 Jet Fuel	A	Sulfuric Acid	A
Kerosene	A	Turpentine	B
Lubricating Oils	A		
<b>Rating Key</b>			
A Fluid has little or no effect on Sta-Plug® Mini™			
B Fluid has minor to moderate harmful effects			
C Fluid has severe effects			