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
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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.

### BOAT FLOODING RATES (gallons per minute) & BILGE PUMP OVERLOAD FACTOR

<table>
<thead>
<tr>
<th>Depth of Hole Below Waterline</th>
<th>Diameter of Opening ( Hole)</th>
<th>1” (25mm)</th>
<th>1.5” (38mm)</th>
<th>2” (51mm)</th>
<th>2.5” (64mm)</th>
<th>3” (76mm)</th>
<th>3.5” (89mm)</th>
<th>4” (102mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1’ (30cm)</td>
<td>1800 GPH Pump = 26 GPM</td>
<td>20</td>
<td>44</td>
<td>79</td>
<td>123</td>
<td>177</td>
<td>241</td>
<td>314</td>
</tr>
<tr>
<td></td>
<td>2000 GPH Pump = 33 GPM</td>
<td>28</td>
<td>62</td>
<td>111</td>
<td>174</td>
<td>250</td>
<td>340</td>
<td>444</td>
</tr>
<tr>
<td>2’ (61cm)</td>
<td>2000 GPH Pump = 33 GPM</td>
<td>34</td>
<td>77</td>
<td>136</td>
<td>213</td>
<td>306</td>
<td>417</td>
<td>544</td>
</tr>
<tr>
<td>3’ (91cm)</td>
<td>2000 GPH Pump = 33 GPM</td>
<td>44</td>
<td>99</td>
<td>176</td>
<td>274</td>
<td>395</td>
<td>538</td>
<td>702</td>
</tr>
<tr>
<td>4’ (122cm)</td>
<td>2000 GPH Pump = 33 GPM</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### BOAT FLOODING RATES (liters per minute) & BILGE PUMP OVERLOAD FACTOR

<table>
<thead>
<tr>
<th>Depth of Hole Below Waterline</th>
<th>Diameter of Opening ( Hole)</th>
<th>25mm</th>
<th>38mm</th>
<th>50mm</th>
<th>65mm</th>
<th>75mm</th>
<th>90mm</th>
<th>100mm</th>
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</thead>
<tbody>
<tr>
<td>30cm</td>
<td>6000 LPH Pump = 100 LPM</td>
<td>167</td>
<td>235</td>
<td>420</td>
<td>659</td>
<td>946</td>
<td>1287</td>
<td>1681</td>
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<tr>
<td>60cm</td>
<td>7500 LPH Pump = 127 LPM</td>
<td>167</td>
<td>235</td>
<td>420</td>
<td>659</td>
<td>946</td>
<td>1287</td>
<td>1681</td>
</tr>
<tr>
<td>90cm</td>
<td>129</td>
<td>291</td>
<td>515</td>
<td>806</td>
<td>1158</td>
<td>1579</td>
<td>2059</td>
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<tr>
<td>1.2m</td>
<td>167</td>
<td>375</td>
<td>666</td>
<td>1037</td>
<td>1495</td>
<td>2037</td>
<td>2657</td>
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</table>

### Sta-Plug® Mini™ CHEMICAL RESISTANCE

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Rating</th>
<th>Fluid</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>A</td>
<td>Milk</td>
<td>A</td>
</tr>
<tr>
<td>Diesel Fuel</td>
<td>B</td>
<td>Mineral Oil</td>
<td>A</td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>A</td>
<td>Nitric Acid</td>
<td>A</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>A</td>
<td>Olive Oil</td>
<td>A</td>
</tr>
<tr>
<td>Gasoline</td>
<td>A</td>
<td>Power Steering Fluid</td>
<td>A</td>
</tr>
<tr>
<td>Gear oil</td>
<td>A</td>
<td>SAE 10W-40 Oil</td>
<td>A</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>A</td>
<td>Sea Water</td>
<td>A</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>A</td>
<td>Silicone grease</td>
<td>A</td>
</tr>
<tr>
<td>JP-4 Jet Fuel</td>
<td>A</td>
<td>Sulfuric Acid</td>
<td>A</td>
</tr>
<tr>
<td>Kerosene</td>
<td>A</td>
<td>Turpentine</td>
<td>B</td>
</tr>
<tr>
<td>Lubricating Oils</td>
<td>A</td>
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</tbody>
</table>

**Rating Key**

- **A**: Fluid has little or no effect on Sta-Plug® Mini™
- **B**: Fluid has minor to moderate harmful effects
- **C**: Fluid has severe effects

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