Syntho-Poxy™ HC is a two part epoxy compound that cures quickly at room temperature. Its high compressive strength makes it very suitable for repairing pitted metal and steel surfaces that are subjected to high pressure. The mix ratio of Syntho-Poxy resin to hardener is 1:1 by weight and volume. When fully cured, the material produces a durable, resilient bond that is resistant to many solvents and adverse environments.

**Mechanical Properties**

<table>
<thead>
<tr>
<th>Test</th>
<th>Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compression Strength</td>
<td>ASTM D695</td>
<td>18,000 psi (1241 bar)</td>
</tr>
<tr>
<td>Lap Shear</td>
<td>ASTM D3163</td>
<td>2,000 psi (138 bar)</td>
</tr>
</tbody>
</table>

**Item #**

- **SPHC50mL** Syntho-Poxy HC 50ml Cartridge w/ Nozzle
- **SPHC200mL** Syntho-Poxy HC 200ml Cartridge w/ Nozzle
- **SPHC400mL** Syntho-Poxy HC 400ml Cartridge w/ Nozzle
- **SPHC_1/2PT** Syntho-Poxy 1/2 Pint Kit
- **SPHC_PT** Syntho-Poxy 1 Pint Kit
- **SPHC_QT** Syntho-Poxy 1 Quart Kit

**Typical Applications**

- Fills pits, voids, corrosion defects, dents, etc. to effectively transfer the load to the repair system
- Used with Syntho-Glass® XT and Viper-Skin™ repair systems
- Underwater, below or above ground

**Benefits**

- Effectively transfers load from the pipe to the repair system
- Highest compression strength of any load transfer material on the market
- Reduces strain of the pipe by over 50% of conventional putty materials
- High bond strength reduces possibility of leaking under the repair
- Available in cartridge form for perfect mixing and consistent applications every time

**Physical Properties**

**Application Temperature:** 40°F to 200°F (5°C to 93°C)
**Color:**
- Resin - Dark Gray
- Curing Agent - Off White
**Cure Time:** 8 Hours at 75°F (24°C)
**Pot Life:** 4-6 Minutes at 75°F (24°C)
**Set Time:** 10-15 Minutes at 75°F (24°C)
**Solids Content:** 100%
**Storage Conditions:** Cool, dry place
**Shelf Life:** 12 Months

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