13. Replace and tighten the sealing fitting’s plug immediately to avoid the SpeedSeal compound from gel ing and fouling the threads. See Figure 7.

14. SpeedSeal material should be used immediately. After one minute, dispose of any unused material.

15. For EYS and EVD sealing fittings, after replacing the plug, attach the red nameplate to the sealing fitting with the plastic bands. Each modification kit is provided with an appropriate number of nameplates and bands. Position the nameplate for maximum visibility.

Table 102.1 - The Maximum Number of Conductors that can be Sealed in a Fitting

<table>
<thead>
<tr>
<th>AWG Size</th>
<th>Seal Size</th>
<th>For 25% Size Sealing</th>
<th>Type</th>
<th>Fill</th>
<th>Fitting Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>Type A</td>
<td>6</td>
<td>80°C</td>
</tr>
<tr>
<td>12</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>Type B</td>
<td>6</td>
<td>80°C</td>
</tr>
<tr>
<td>10</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>Type C</td>
<td>6</td>
<td>80°C</td>
</tr>
<tr>
<td>8</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>Type D</td>
<td>6</td>
<td>80°C</td>
</tr>
<tr>
<td>6</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>Type E</td>
<td>6</td>
<td>80°C</td>
</tr>
<tr>
<td>4</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>Type F</td>
<td>6</td>
<td>80°C</td>
</tr>
</tbody>
</table>

In our example, use an EYS6 (for 2" size EYD, EZD, or EZS) sealing fitting.

NOTE: Latest Material Safety Data Sheet for the CHICO® SpeedSeal™ Compound is available in the Resources section of the Crouse-Hinds web site at www.crouse-hinds.com.

WARNING

Contents will develop internal pressure after mixing; remove mixing rod immediately after mixing to prevent pressure build-up and possible sudden evaporation that could result in personal injury.

Contents incompletely mixed - may be skin and respiratory sensitizer. May cause irritation of eyes, skin, nose and throat. Do not breathe vapors. Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

CAUTION

To avoid explosion hazard, the temperature of the SpeedSeal compound must be between 50°F (10°C) and 89°F (32°C) before mixing. Sealing fittings must be at a temperature above 40°F (4°C).

To avoid explosion hazard, discard any unused CHICO SpeedSeal compound 1-1/2 years after date of manufacture on packaging.

NOTE: All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds “Terms and Conditions of Sale,” and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.

CAUTION

Avoid the product when mixing and injecting the compound SpeedSeal to prevent personal injury.

NOTE: Use proper eye protection and protective plastic gloves when mixing and installing SpeedSeal compound to prevent personal injury.

NOTE: Use the protection adequate for eyes and protective globes that prevent plastic when you mingle and inject the compound SpeedSeal afin d’empêcher des blessures corporelles.

NOTE: Utiliser la protection adequate pour les yeux et les gants de protection plastique quand vous mélangez et injectez le produit SpeedSeal afin d’empêcher des blessures corporelles.

AVERTISSEMENT

Pour éviter les dangers d’explosion, jetez tout produit SpeedSeal de Chico non utilisé dés le 1-1/2 an après la date de fabrication indiquée sur l’emballage.

PRÉCAUTION

Evite el contacto con los ojos, piel y ropa.

WARNING

WARNING

Contents will develop internal pressure after mixing; remove mixing rod immediately after mixing to prevent pressure build-up and possible sudden evaporation that could result in personal injury.

Contents incompletely mixed - may be skin and respiratory sensitizer. May cause irritation of eyes, skin, nose and throat. Do not breathe vapors. Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

CAUTION

To avoid explosion hazard, the temperature of the SpeedSeal compound must be between 50°F (10°C) and 89°F (32°C) before mixing. Sealing fittings must be at a temperature above 40°F (4°C).

To avoid explosion hazard, discard any unused CHICO SpeedSeal compound 1-1/2 years after date of manufacture on packaging.

NOTE: All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds “Terms and Conditions of Sale,” and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.

CAUTION

Avoid the product when mixing and injecting the compound SpeedSeal to prevent personal injury.

NOTE: Use proper eye protection and protective plastic gloves when mixing and installing SpeedSeal compound to prevent personal injury.

NOTE: Utiliser la protection adequate pour les yeux et les gants de protection plastique quand vous mélangez et injectez le produit SpeedSeal afin d’empêcher des blessures corporelles.

AVERTISSEMENT

Pour éviter les dangers d’explosion, jetez tout produit SpeedSeal de Chico non utilisé dés le 1-1/2 an après la date de fabrication indiquée sur l’emballage.

PRÉCAUTION

Evite el contacto con los ojos, piel y ropa.

WARNING

WARNING

Contents will develop internal pressure after mixing; remove mixing rod immediately after mixing to prevent pressure build-up and possible sudden evaporation that could result in personal injury.

Contents incompletely mixed - may be skin and respiratory sensitizer. May cause irritation of eyes, skin, nose and throat. Do not breathe vapors. Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

CAUTION

To avoid explosion hazard, the temperature of the SpeedSeal compound must be between 50°F (10°C) and 89°F (32°C) before mixing. Sealing fittings must be at a temperature above 40°F (4°C).

To avoid explosion hazard, discard any unused CHICO SpeedSeal compound 1-1/2 years after date of manufacture on packaging.

NOTE: All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds “Terms and Conditions of Sale,” and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.
### APPLICATION

The National Electrical Code® (NEC) requires that seals be installed in specific places in Class I, Divisions 1 and 2 classified areas. This is to minimize the passage of gases and vapors and to prevent the passage of flames through the conduit from one portion of the electrical installation to another portion. While not a code requirement, it is considered good practice to sectionalize long conduit runs by inserting seals not more than 50 to 100 feet apart, depending on the conduit size, to minimize the effects of “pressure piling.”

The NEC requires seals in Class II locations under certain conditions. Crouse-Hinds sealing fittings can be used to meet these requirements. Conduct seals are not intended to prevent the passage of liquids, gases or vapors at a continuous pressure differential across the seal. Even at differences in pressure across the seal equivalent to a few inches of water, there may be a slow passage of gas or vapor through a seal and through the conductors passing through the seal.

Crouse-Hinds sealing fittings are listed by Underwriters’ Laboratories, Inc. (UL) for use in Class I and Class II hazardous locations with Chico A sealing compound and Chico X fiber. Alternatively, Crouse-Hinds EYS and EYD type sealing fittings are also UL Listed for use in Class I, Groups C, D and Class II, Groups E, F, G hazardous areas with Chico-Hinds SpeedSeal sealing compound.

Crouse-Hinds Chico SpeedSeal compound may be used to seal in both horizontal and vertical installations. It may be used with type EYS and EYD sealing fittings in 1” to 2” trade sizes, in classes I, Division 1 and 2, Groups C, D and Class I, Division 1 and 2, Groups E, F, G hazardous areas. The SpeedSeal compound, when properly mixed, starts to gel in about 4 minutes.

### INSTALLATION

**Figure 1 - SpeedSeal Compound Chart**

Use chart to determine which size SpeedSeal cartridge to use for selected sealing applications.

<table>
<thead>
<tr>
<th>Fitting Catalog Number</th>
<th>Amount of SpeedSeal material needed (in ounces) per fitting</th>
<th>Suggested SpeedSeal Compound Number</th>
<th>Required Cartridge Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYS1, EYS16, EYS11, EYS18</td>
<td>1</td>
<td>CHICO SS2 (2 oz. Cartridge)</td>
<td>1</td>
</tr>
<tr>
<td>EYD1, EYD16, EYD11, EYD18</td>
<td>2</td>
<td>CHICO SS2 (2 oz. Cartridge)</td>
<td>2</td>
</tr>
<tr>
<td>EYS2, EYS26, EYS21, EYS26</td>
<td>3</td>
<td>CHICO SS2 (2 oz. Cartridge)</td>
<td>3</td>
</tr>
<tr>
<td>EYD2, EYD26, EYD21, EYD26</td>
<td>4</td>
<td>CHICO SS2 (2 oz. Cartridge)</td>
<td>4</td>
</tr>
<tr>
<td>EYSX31, EYSX31</td>
<td>5</td>
<td>CHICO SS2 (2 oz. Cartridge)</td>
<td>5</td>
</tr>
<tr>
<td>EYDX31</td>
<td>6</td>
<td>CHICO SS2 (2 oz. Cartridge)</td>
<td>6</td>
</tr>
</tbody>
</table>

Conductors sealed in SpeedSeal compound should be an approved thermoplastic or rubber insulated type.

**Preparing EYS Sealing Fittings**

1. Remove the pipe plug(s) from the EYS sealing fitting.
2. For vertical installations, it is necessary to use Chico X fiber to make a dam in the bottom conduit hub. The dam will prevent the un-gelled SpeedSeal compound from leaking out of the sealing chamber. No dam is required for horizontal installations unless it is desired to have compound expand in one direction or to keep compound out of conduit or adjacent enclosures.

3. To properly make dam in conduit hub, use EYS TOOL KIT or hardwood stick, to force the conductors forward. Do not use metal tools.
4. Pack the fiber into the bottom conduit hub behind the conductors.
5. Push the conductors toward the back of the fitting and pack fiber in bottom conduit hub in front of conductors. It is not critical that the conductors are separated because the SpeedSeal compound will expand and fill around the individual conductors. However, a good dam is required to prevent the fluid material from leaking out of the sealing chamber.
6. Do not leave shreds of fiber clinging to the side wall of sealing chamber or to the conductors. Such shreds, imbedded in the sealing compound, may form leakage channels.

**Mixing and Dispensing SpeedSeal Compound**

1. READ ALL INSTRUCTIONS PRIOR TO MIXING. SPEEDSEAL COMPOUND BEGINS TO EXPAND VERY QUICKLY. BE SURE TO FAMILIARIZE YOURSELF WITH THE INSTRUCTIONS ON THE FOLLOWING PAGES BEFORE MIXING. THIS WILL ENSURE PROPER INSTALLATION.
2. Make sure that SpeedSeal material is at a temperature between 70°F (21°C) and 60°F (4°C).
3. WEAR SAFETY GLASSES AND PROTECTIVE GLOVES.
4. Check the mixing rod to ensure that it isn’t overly tight or loose. To do this, hold the cartridge with the red end cap facing up and squeeze the cartridge in the area around the plunger. The cartridge will hold plunger in place. See Figure 1. Turn counters clockwise slightly to loosen, then clockwise to re-tighten.
5. Remove the tape band from the cartridge.
6. Pull the mixing rod up to the top of the cartridge. See Figure 2.
7. Squeeze the cartridge in the area of the removed tape band to deform the foil barrier between the two materials. See Figure 3.
8. Hold the tube with the red end cap on a flat surface. Push the mixing rod all the way in to the bottom of the cartridge and hold in place while mixing. Mix rapidly for 40 to 50 strokes (a stroke is one complete in and out cycle). While mixing, hold cartridge firmly and turn in a clockwise rotation to make sure that the plunger is scooping all material in the cartridge. DO NOT MIX FOR MORE THAN 30 SECONDS. PRESSURE WILL BUILD UP ON THE INSIDE AFTER 30 SECONDS AS THE MATERIAL STARTS TO EXPAND.

10. At the last stroke, push the mixing rod all the way in to the bottom (red side), grasp the cartridge firmly at the bottom to hold plunger in place, and immediately unscrew the mixing rod and remove carefully. See Figure 4.

11. Screw nozzle onto cartridge where mixing rod was removed. See Figure 5.
12. Use the mixing rod to push the plunger. Inject the proper amount of sealing compound material into the fitting through the EYS threaded opening.

13. See Table 1 at the beginning of installation instructions for proper amount of material. Cartridge is marked at 1/2 used point.

---

**Figure 1**

**Figure 2**

**Figure 3**

**Figure 4**

**Figure 5**

**Figure 6**