**NOTES:**

1. HEAT SHRINK DUCT TO TRUMPET.
2. 0.6" STRAND
3. 27ksi STEEL PER ASTM A416, LOW RELAXATION
4. ALL NON-FERROUS COMPONENTS CONTAIN VIRGIN MATERIAL.
5. IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN BY OTHERS
6. SDI DOES NOT MAKE ANY JUDGMENT NOR WARRANTY, EXPRESSED OR IMPLIES WRITTEN PERMISSION OF SCHWAGER DAVIS INC. (SDI).

---

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
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<td>1</td>
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<td>ASTM A 536 GR. 60-55-06 (GALVANIZED)</td>
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<td>2</td>
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<td>POLYPROPYLENE PER ASTM D4101</td>
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<tr>
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<td>GASKET</td>
<td>BUNA-N PER ASTM D2240 &amp; D412</td>
</tr>
<tr>
<td>4</td>
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<td>27ksi STEEL PER ASTM A416, LOW RELAXATION</td>
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<tr>
<td>5</td>
<td>81001</td>
<td>SDI 0.6&quot; STANDARD 3-PART WEDGE</td>
<td>A931 L117 OR 123,14</td>
</tr>
<tr>
<td>6</td>
<td>75008</td>
<td>SDI 4.6A PC PERMANENT GROUT CAP</td>
<td>NYLON PER ASTM D989</td>
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<tr>
<td>7</td>
<td>77008</td>
<td>3/8&quot; x 5&quot; BOLT &amp; WASHER</td>
<td>STAINLESS STEEL, TYPE 316</td>
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<tr>
<td>9</td>
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<td>SDI-HD-222</td>
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<td>10</td>
<td>74002</td>
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<td>Grade 60 STEEL PER ASTM A815</td>
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<td>HEAT SHRINK TUBING (PLA-63-YE)</td>
<td>ADHESIVE LINED POLYOLEFIN</td>
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<td>12</td>
<td>32003</td>
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<td>POLYPROPYLENE PER ASTM D4101</td>
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<td>13</td>
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<td>2&quot; (50mm) SLIP-ON DUCT COUPLER</td>
<td>POLYPROPYLENE PER ASTM D4101</td>
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<tr>
<td>14</td>
<td>51001</td>
<td>X' (22mm) GROUT HOSE</td>
<td>HIGH DENSITY POLYETHYLENE PER ASTM D3350</td>
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<tr>
<td>15</td>
<td>51002</td>
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<td>HIGH DENSITY POLYETHYLENE PER ASTM D3350</td>
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<td>BALL VALVE (TEMPORARY)</td>
<td>POLYVINYL CHLORIDE</td>
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<td>52006</td>
<td>1&quot; BALL VALVE (TEMPORARY)</td>
<td>POLYVINYL CHLORIDE</td>
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<td>11&quot; PLUG</td>
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<td>59001</td>
<td>1/8&quot; (23mm) PLUG</td>
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<td>53011</td>
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<td>POLYPROPYLENE PER ASTM D4101</td>
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<td>57003</td>
<td>(23mm) WELDABLE GROUT PORT</td>
<td>POLYPROPYLENE PER ASTM D4101</td>
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<tr>
<td>23</td>
<td>76014</td>
<td>O-RING SEAL</td>
<td>BUNA-N PER ASTM D2240 &amp; D412</td>
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<tr>
<td>24</td>
<td>33301</td>
<td>ZIP TIE - 2 6A4A 6 TRUMPET</td>
<td>NYLON, 120 LBS BREAKING STRENGTH</td>
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<td>TEFLON TAPE (TEMPORARY)</td>
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<td>0000E</td>
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<td>COMMERCIALLY AVAILABLE/EPOXY</td>
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<tr>
<td>27</td>
<td>0000G</td>
<td>N/A</td>
<td>COMMERCIALLY AVAILABLE/EPOXY</td>
</tr>
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</table>

**SDI 4.6A INTERNAL BONDED ROUND DUCT GROUTED SYSTEM**

---

**STEPS AND RECOMMENDATIONS:**

**STEP 1:** HARD ANCHORAGE WITH EACH 3" ALL THREAD.  
**STEP 2:** INSTALL TRUMPET. MAKE SURE GASKET IS INSTALLED BETWEEN TRUMPET AND ANCHORAGE.  
**STEP 3:** PLACE BURSTING STEEL 7" BEHIND ANCHORAGE. ENSURE BURSTING STEEL IS CONCENTRIC AND PARALLEL TO PATH OF TENSION.  
**STEP 4:** PLACE O-RING IN LAST CORRUPTION OF DUCT.  
**STEP 5:** SLIDE DUCT INSIDE TRUMPET.  
**STEP 6:** IF USING HEAT SHRINK.

---

**STEPS AND RECOMMENDATIONS:**

**STEP 1:** PLACE STRANDS ON ANCHORAGE.  
**STEP 2:** ENSURE WEAVE CAPS ARE RUST FREE AND CLEAN PRIOR TO WEDGE INSTALLATION.  
**STEP 3:** PULL WEDGES OVER STRAND AND AGAINST THE ANCHORAGE USING A 12" PULL.  
**STEP 4:** STRESS TENDONS AFTER CONCRETE HAS REACHED REQUIRED STRENGTH PER DRAWINGS AND/OR SPECIFICATION.  
**STEP 5:** PERFORM PRESSURE TEST PER FDOT 462-8.2.1.2  
**STEP 6:** AFTER STRESSING AND APPROVAL FROM OWNERS REPRESENTATIVE, CUT STRAND TAILS 7" FROM FACE OF ANCHORAGE.  
**STEP 7:** INSTALL VENTS (SEE NOTE: 16).  
**STEP 8:** INSTALL GROUT CAP BY TORQUING BOLTS TO 15 FT-LB.  
**STEP 9:** INJECT GROUT PER GROUT INJECTION PROCEDURE.  
**STEP 10:** INSTALL ALL TEMPORARY HARDWARE ONCE GROUTING PROCEDURE IS COMPLETE AND CAP OR PLUG HOSES PER DRAWINGS.

**NOTES:**

- LUBRICATE ALL THREADS FOR EASE OF INSTALLATION.
- EPOXY IS TO BE USED ON EVERY PERMANENT GROUT HOSE/COUPLER/PLUG THREADS. TEFLON TAPE IS TO BE USED ON EVERY TEMPORARY GROUT HOSE/COUPLER/PLUG THREADS. THREAD INTO ALL CONNECTIONS. DO NOT INJECT THROUGH VENTS.
- MAKE SURE O-RING AND WASHER IS INSTALLED WITH GROUT CAP BOLT.
- VENTS ARE SHOWN FOR REFERENCE ONLY. FOR ACTUAL LOCATION, SEE PLACING DRAWINGS.
- TEFLON TAPE IS TO BE USED ON EVERY PERMANENT GROUT HOSE/COUPLER/PLUG THREADS. THREAD INTO ALL CONNECTIONS. DO NOT INJECT THROUGH VENTS.
- TENSIONING HARDWARE IS GENERALLY FOLLOW EDIT SPECIFICATIONS AND PROJECT SPECIFIC REQUIREMENTS.
- Notes: 16: TEMPORARY HARDWARE.
- Notes: 17: TENSION FILLER MATERIAL IS GROUT.
SDI 4.6A ROUND TRUMPET

PART NO.: 73011

MATERIAL: POLYPROPYLENE PER ASTM D4101

CELL CLASS RANGE: PP03046445641 TO PP0304687884

MATERIAL MEETS ALL SPECIFICATIONS.

SCALE: 6" = 1'-0"

SDI 4.6A-R
73011

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SDI 4.6A TRUMPET GASKET
PART NO.: 76007
MATERIAL: 1/8" THICK - BUNA-N PER ASTM D2240 & D412
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"
0.6" BARE STRAND

PART NO: 21001

MATERIAL: 270 KSI LOW RELAXATION STEEL ACCORDING TO ASTM A416

MATURAL MEETS ALL SPECIFICATIONS,

SCALE: 1:0" = 1:0"

LENGTH VARIES
SDI 0.6" WEDGE (2-PART)

PART NO.: 81001
MATERIAL: AISI 11L17 OR 12L14
MATERIAL MEETS ALL SPECIFICATIONS.
PART IDENTIFICATION MARKED ON CONTAINER
SCALE: 1'-0" = 1'-0"

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SDI 4.6A-PC PERMANENT GROUT CAP

PART NO.: 75008
MATERIAL: NYLON MEETING CELL CLASS S-PA0141, S-PA0231, OR S-PA0401
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

(2) HOLES FOR 
\( \frac{1}{8} "\) BOLTS

\( \frac{1}{8} "\) (13mm) GROUT HOSE THREAD

SCHWAGER DAVIS, INC.
DESIGN-BUILD CONTRACTOR
198 HILLSDALE AVENUE
SAN JOSE, CA 95136
PHONE: 408.281.9300
FAX: 408.281.9301
www.schwagerdavis.com

APPROVED
CHECKED
DRAWN
REVISIONS
DATE
DRAWING No: SDI-HD-070

REVISED
THT
MCS
MCS
05/22/12

REVISED
THT
MCS
MCS
08/13/12

UPDATE
CSM
MSC
MSC
05/26/15

UPDATE
JSA
MSC
MSC
06/15/18

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3/8"-16 BOLT & WASHER

PART NO.: 77002 - SDI 2.6A-PC PERMANENT CAP BOLTS (L= 5")
77004 - SDI 12.6-PC PERMANENT CAP BOLTS (L= 2.5")
77006 - SDI 22.6-PC PERMANENT CAP BOLTS (L= 3")
77008 - SDI 4.6A-PC PERMANENT CAP BOLTS (L= 5")

MATERIAL: STAINLESS STEEL, TYPE 316 ACCORDING TO ASTM F593
MATERIAL MEETS ALL SPECIFICATIONS.

SCALE: 1'-0" = 1'-0"

WASHER MAY VARY FROM 0.04" TO 0.06" IN THICKNESS

VARIATION SEE LENGTHS BELOW

3/8" [19]
3/16" [10]
1/16" [14]

3/8" [8]
1" [25]
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<tr>
<th>PART NO.</th>
<th>DASH NO.</th>
<th>FRACTIONAL SIZE, ID x OD</th>
<th>ACTUAL SIZE ID x OD</th>
<th>WIDTH</th>
<th>DUROMETER</th>
</tr>
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SDI 4.6A STANDARD BURSTING REINFORCEMENT

SDI 4.6A ALTERNATIVE BURSTING REINFORCEMENT
FOR USE IN DECKS THAT REQUIRE MORE CONCRETE COVER

SDI 4.6A BURSTING REINFORCEMENT
PART NO.: 74001
MATERIAL: GRADE 60 STEEL ACCORDING TO ASTM A615
#3 REBAR, 2EA SETS OF BENT BARS
#3 REBAR, 4EA STRAIGHT BARS
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1-1/2" = 1'-0"
NOTE: PROJECT SPECIFIC REQUIREMENTS SUPERSEDE
BURSTING STEEL REQUIREMENTS OF THIS SHEET

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HEAT SHRINK TUBING (PLA-63-YE)

PART NO.: 37002

MATERIAL: POLYOLEFIN

TUBULAR SLEEVE DIAMETER:
- 3.50" [89mm] AS SUPPLIED
- 2.50" [64mm] FULLY RECOVERED

MATERIAL MEETS ALL SPECIFICATIONS.

SCALE: 6" = 1'-0"

NOTE: INSTALL PER MANUFACTURE'S RECOMMENDATION
**CanusaTube™ - PLA**

**Tubular sleeve for pipeline corrosion protection**

**Product Description**

Canusa Tubes™ are shipped with an inner release liner for protection from contamination.

**Storage & Safety Guidelines**

To ensure maximum performance, store Canusa products in a dry, ventilated area. Keep products sealed in original cartons and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements. Avoid prolonged storage at temperatures above 35°C (95°F) or below -20°C (-4°F). Product installation should be done in accordance with local health and safety regulations.

These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

**Surface Preparation**

Ensure that the PE coating edges are bevelled to 30°. Clean exposed steel and adjacent pipe coating with a solvent cleanser to remove the presence of oil, grease, and other contaminants.

**Sleeve Installation**

Ensure that there is no dirt or moisture inside the tube and that the tube is not cut. If the sleeve is not usable, a one-piece Wrapid Sleeve or Canusa Wrap sleeve should be used.

**Equipment List**

- Propane tank, hose, torch & regulator
- Appropriate tools for surface abrasion
- Knife, roller, rags & approved solvent cleanser
- Digital thermometer with suitable probe
- Standard safety equipment; gloves, goggles, hard hat, etc.

**Flame Intensity & Torch Size**

Use moderate flame intensity for pre-heating and shrinking.

Minimum Torch Size: 150,000 BTU/hr.

**Pre-Heat**

Pre-Heat the joint area to a minimum of 60°C (140°F). Using a temperature measuring device, ensure the correct temperature is reached on the steel and at least 50mm (2") on each side of the sleeve.

**Sleeve Installation**

Completely remove the inner release liner from the sleeve and centre the sleeve over the area to be sealed.

**Sleeve Width**

50mm + Sleeve + 50mm

1 m

**Equipment List**

- Propane tank, hose, torch & regulator
- Appropriate tools for surface abrasion
- Knife, roller, rags & approved solvent cleanser
- Digital thermometer with suitable probe
- Standard safety equipment; gloves, goggles, hard hat, etc.
**Sleeve Installation**

13. Continue heating from the centre toward one end of the sleeve until recovery is complete. In a similar manner, heat and shrink the remaining side. With a yellow backing, a pink-orange shade will appear when the proper temperature has been reached.

14. Shrinking has been completed when the adhesive begins to ooze at the sleeve edges all around the circumference. Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.

15. While the sleeve is still hot and soft, use a hand roller to firmly roll the sleeve surface and push any trapped air up and out of the sleeve, as shown above. If necessary, reheat to roll out air.

**Inspection**

16. Visually inspect the installed sleeve for the following:
- Sleeve is in full contact with the steel joint.
- Adhesive flows beyond both sleeve edges.
- No cracks or holes in sleeve backing.

**Backfilling Guidelines**

17. After shrinking is complete, allow the sleeve to cool for 2 hours prior to lowering and backfilling. To prevent damage to the sleeve, use selected backfill material, (no sharp stones or large particles) otherwise an extruded polyethylene mesh or other suitable shield should be used.
SDI 2" CORRUGATED PLASTIC DUCT

PART NO.: 32003
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
MINIMUM BENDING RADIUS: 8 FT
SCALE: 6" = 1'-0"
SDI 2\" SLIP-ON DUCT COUPLER

PART NO.: 33003
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6\" = 1'-0\"

SDI 2\" SLIP-ON DUCT COUPLER
PART NO.: 33003
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6\" = 1'-0\"

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REVISED LENGTH

THT
RS
RS
3-8-12

PER COMMENTS

MHA
JMY
JMY
10-7-13

UPDATE

CSM
MSC
MSC
5-26-15

UPDATE

JSA
MSC
MSC
6/13/18
3/4" NOM. (23mm) GROUT HOSE

PART NO.: 51001
MATERIAL: HDPE
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

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POST TENSION SYSTEM LIBRARY

DRAWING No: SDI-HD-189

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</table>
1/2" NOM. (13mm) GROUT HOSE

PART NO.: 51002
MATERIAL: HDPE
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

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1" DIAMETER BALL VALVE (TEMPORARY)

PART NO.: 52006  
MATERIAL: PVC  
PRESSURE RATING: 150 PSI  
THREAD SIZE: 1" NPT  
MATERIAL MEETS ALL SPECIFICATIONS.  
SCALE: 6" = 1'-0"

1" DIAMETER BALL VALVE (TEMPORARY)

PART NO.: 52006  
MATERIAL: PVC  
PRESSURE RATING: 150 PSI  
THREAD SIZE: 1" NPT  
MATERIAL MEETS ALL SPECIFICATIONS.  
SCALE: 6" = 1'-0"
1/2" DIAMETER BALL VALVE (TEMPORARY)

PART NO.: 52008
MATERIAL: PVC
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

1/2" DIAMETER BALL VALVE (TEMPORARY)

SCHWAGER DAVIS, INC.
POST-TENSION SYSTEM LIBRARY

SCHWAGER DAVIS, INC.
DESIGN-BUILD CONTRACTOR
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SAN JOSE, CA 95136
PHONE: 408.281.9300
FAX: 408.281.9301
www.schwagerdavis.com

04/02/14 05/26/15 06/18/18

REVISED  CHECKED  APPROVED  DATE
0  RELEASE  MHA  MSC  MSC  04/02/14
1  UPDATE  CSM  MSC  MSC  05/26/15
2  UPDATE  JSA  MSC  MSC  06/18/18

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1/2" NOM. (13mm) GROUT TUBE PLUG

PART NO.: 55003
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

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DRAWING No: SDI-HD-155

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<td>06/16/18</td>
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</tbody>
</table>
3/4" NOM. (23mm) GROUT TUBE PLUG

PART NO.: 55001
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

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1/2" NOM. (13mm) NPT COUPLER

PART NO.: SDI011
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

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MSC MSC MSC
05/26/15

MSC MSC
06/19/18
PP WELDABLE GROUT PORT WITH 3/4" (23mm) GROUT THREAD

PART NO.: 57003
MATERIAL: POLYPROPYLENE
CELL CLASS: PP0340B44541 TO PP0340B67884
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

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ZIP TIE - 2.6A/4.6A TRUMPET

PART NO.: 33301

MATERIAL: NYLON, 120 LBS BREAKING STRENGTH
MATERIAL MEETS ALL SPECIFICATIONS.

SCALE: 6" = 1'-0"

1'-0" [305] OVERALL LENGTH
RED-i PT CABLE COATING GREASE

RED-i PT CABLE COATING is specially formulated for the post tensioning construction industry, and exceeds the Post Tensioning Institute (PTI) specifications in corrosion protection for unbonded and single-strand tendons in corrosive service.

**Product Description:** RED-i PT CABLE COATING is a premium lithium grease fortified with effective corrosion inhibitors. The coating is specifically designed to provide extended protection against corrosion of metal cables or any metallic surface exposed to moisture.

**Features:**
- Adhesive properties protects metal surfaces from air, moisture, and sea water.
- Excellent corrosion and rust inhibition properties.
- Exceeds PTI specifications.
- Member Post Tensioning Institute.
- High dropping point.
- Contains antimicrobial agent.

**Typical Uses:**
- Preserves metallic cables and wires exposed to corrosive environments.
- Preserves steel reinforcement bars or rods used for concrete structures against corrosion.
- Recommended for use in marine and construction industries.

**Typical Specifications:**

<table>
<thead>
<tr>
<th>GRADE, NLGI</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penetration @ 77° F. (ASTM Worked)</td>
<td>265-295</td>
</tr>
<tr>
<td>Dropping Point, ASTM D-2265, °F.</td>
<td>383</td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
</tr>
<tr>
<td>Texture</td>
<td>Butter</td>
</tr>
<tr>
<td>Appearance</td>
<td>Smooth</td>
</tr>
<tr>
<td>Soap Type</td>
<td>Lithium</td>
</tr>
<tr>
<td>Soap, %</td>
<td>7.0</td>
</tr>
<tr>
<td>Rust Test, ASTM D-1743</td>
<td>Pass</td>
</tr>
<tr>
<td>Corrosion Test, ASTM B-117</td>
<td>Pass (No Rust)</td>
</tr>
<tr>
<td>Soak Test, ASTM B-117 Modified</td>
<td>Pass</td>
</tr>
<tr>
<td>Emulsification Of Coating</td>
<td>None</td>
</tr>
<tr>
<td>Oil Separation, FTM 321.2 , Wt.%</td>
<td>0.5</td>
</tr>
<tr>
<td>Flash Point, ASTM D-92, Coc, °F</td>
<td>350</td>
</tr>
<tr>
<td>Water Content, ASTM D-95, Wt.%</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Base Oil Viscosity</td>
<td>321.0</td>
</tr>
<tr>
<td>cSt. @ 40° C.</td>
<td>21.0</td>
</tr>
<tr>
<td>cSt. @ 100° C.</td>
<td>74</td>
</tr>
<tr>
<td>SUS@100° F.</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>8.54</td>
</tr>
<tr>
<td>Chlorides, PPM ASTM D-512</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Nitrates, PPM, ASTM D3867</td>
<td>8.54</td>
</tr>
<tr>
<td>Tensile Strength Change Of Polymer, ASTM D638</td>
<td></td>
</tr>
</tbody>
</table>

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY.
SET High Strength Epoxy-Tie® Anchoring Adhesive

SET Epoxy-Tie® epoxy is a two-component, 1:1 ratio, high solids, epoxy-based adhesive for use as a high strength, non-shrink anchor grouting material. Resin and hardener are dispensed and mixed simultaneously through the mixing nozzle. SET meets or exceeds the requirements of ASTM C-881 specification for Type I, II, IV and V, Grade 3, Class B and C.

USES
- Threaded-rod anchoring
- Rebar doweling
- Bonding hardened concrete to hardened concrete
- Pick-proof sealant around doors, windows and fixtures
- Paste-over for crack injection

CODE REPORTS
- ICC Evaluation Service ESR-1772 (formerly ICBO-ES ER-5279) (PDF) (CMU & URM)
- City of L.A. RR25279 (PDF)
- Caltrans approved
- Florida Statewide Product Approval FL.11506.4
- multiple DOT listings
- NSF/ANSI Standard 61 (216 in²/1000 gal) (PDF), except SET1.7KTA
- SET-PAC EZ™ adhesive covered by ICC-ES, City of L.A. and NSF/ANSI listings only

The load tables list values based upon results from the most recent testing and may not reflect those in current code reports. Where code jurisdictions apply, consult the current code reports.

LINKS:
- Supplemental Topics for Adhesive Anchors
- Estimating Guide
- Limited Warranty Information
- Tension and Shear Load Tables
- Load-Adjustment Factors
- Documents:
  - Anchor Catalog Section (PDF)
  - Product Submittal (PDF)
  - Material Safety Data Sheet: SET (PDF)
  - Material Safety Data Sheet: SET en Español (PDF)
  - SET-PAC-EZ™ Epoxy-Tie® Anchoring Adhesive Flier (PDF)
  - Rebar Yield and Tensile Strength Embedments Technical Bulletin (PDF)
  - Rebar Yield and Tensile Strength Embedments (Canada) Technical Bulletin (PDF)
  - Anchor Tension Loads in Masonry Chair Block Technical Bulletin (PDF)
- Free Software:
  - Anchor Designer
  - Adhesive Cartridge Quantity Estimator
APPLICATION

Surfaces to receive epoxy must be clean. For installations in or through standing water, see Supplemental Topics for Adhesive Anchors for details. The base material temperature must be 40°F or above at the time of installation. For best results, material should not be immersed in water to facilitate warming. To warm cold material, the cartridges should be stored in a warm, uniformly heated area or storage container for a sufficient time to allow epoxy to warm completely. Mixed material in nozzle can harden in 5-7 minutes at a temperature of 40°F or above.

TEST CRITERIA

Anchors installed with SET Epoxy-Tie® adhesive have been tested in accordance with ICC-ES's Acceptance Criteria for Adhesive Anchors (AC58) for the following:

- Seismic/wind loading
- Long-term creep at elevated-temperature
- Static loading at elevated-temperature
- Damp and water-filled holes
- Freeze-thaw conditions
- Critical and minimum edge distance and spacing

In addition, anchors installed with SET Epoxy-Tie® adhesive have been tested in accordance with ICC-ES's Acceptance Criteria for Unreinforced Masonry Anchors (AC60).

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consistency</td>
<td>ASTM C 881</td>
<td>Non-sag/thixotropic paste</td>
</tr>
<tr>
<td>Heat deflection</td>
<td>ASTM D 648</td>
<td>136°F (58°C)</td>
</tr>
<tr>
<td>Bond strength (moist</td>
<td>ASTM C 882</td>
<td>3,218 psi (2 days)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3,366 psi (14 days)</td>
</tr>
<tr>
<td>Water absorption</td>
<td>ASTM D 570</td>
<td>0.110% (24 hrs)</td>
</tr>
<tr>
<td>Compressive yield</td>
<td>ASTM D 695</td>
<td>5,065 psi (24 hours)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12,650 psi (7 days)</td>
</tr>
<tr>
<td>Compressive modulus</td>
<td>ASTM D 695</td>
<td>439,000 psi (7 days)</td>
</tr>
<tr>
<td>Get time (75°F)</td>
<td>ASTM C 881</td>
<td>30 min - 60 gram mass</td>
</tr>
<tr>
<td></td>
<td></td>
<td>60 min - thin film</td>
</tr>
</tbody>
</table>

ACCESSORIES / RELATED PRODUCTS

- Dispensing Tools
- Mixing Nozzles
- Plastic Anchoring Screens
- Steel Anchoring Screens
- Hole Cleaning Brushes

SUGGESTED SPECIFICATIONS

Anchoring adhesive shall be a two-component high-solids epoxy based system supplied in manufacturer's standard cartridge and dispensed through a static-mixing nozzle supplied by the manufacturer. Epoxy shall meet the minimum requirements of ASTM C-881 specification for Type I, II, IV, and V, Grade 3, Class B and C and must develop a minimum 12,650 psi compressive yield strength after 7 day cure. Epoxy must have a heat deflection temperature of a minimum 136°F (58°C). Adhesive shall be SET Epoxy-Tie® adhesive from Simpson Strong-Tie, Pleasanton, CA. Anchors shall be installed per Simpson Strong-Tie instructions for SET Epoxy-Tie® adhesive.

ASD DESIGN EXAMPLE

For design example, click here.

INSTALLATION

IMPORTANT  For installation instructions, click here.

SHELF LIFE

24 months from date of manufacture in unopened side-by-side cartridge. SET-PAC EZ™ cartridge - 24 months from date of manufacture, unopened.

STORAGE CONDITIONS

For best results store between 45°F - 90°F. To store partially used cartridges, leave hardened nozzle in place. To re-use, attach new nozzle.

COLOR

Resin – white, hardener – black
When properly mixed SET adhesive will be a uniform light gray color.

CLEAN UP

Uncured material – Wipe up with cotton cloths. If desired scrub area with abrasive, waterbased cleaner and flush with water. If approved, solvents such as ketones (MEK, acetone, etc.), lacquer thinner or adhesive remover can be used. DO NOT USE SOLVENTS TO CLEAN ADHESIVE FROM SKIN. Take appropriate precautions when handling flammable solvents. Solvents may damage surfaces to which they are applied. Cured material – Chip or grind off surface.

CHEMICAL RESISTANCE
Very good to excellent against distilled water, inorganic acids and alkalis. Fair to good against organic acids and alkalis, and many organic solvents. Poor against ketones. For more detailed information download Technical Bulletin T-SAS-CHEMRES08 (PDF).

**SET Cartridge Systems**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Capacity (cubic inches)</th>
<th>Cartridge Type</th>
<th>Carton Quantity</th>
<th>Dispensing Tool(s)</th>
<th>Mixing Nozzle</th>
</tr>
</thead>
<tbody>
<tr>
<td>SET1.7KTA</td>
<td>1.7 (3.1)</td>
<td>side-by-side</td>
<td>12</td>
<td>Adaptor included for standard caulking tool</td>
<td>EMN1.7 (2 included)</td>
</tr>
<tr>
<td>SET-PAC-EZ</td>
<td>8.5 (16.2)</td>
<td>single</td>
<td>12</td>
<td>CDT10 or high quality standard caulking tool</td>
<td>2 included</td>
</tr>
<tr>
<td>SET22</td>
<td>22 (39.7)</td>
<td>side-by-side</td>
<td>10</td>
<td>EDT22B, EDT22AP, or EDT22CKT</td>
<td>EMN22i</td>
</tr>
<tr>
<td>SET56</td>
<td>56 (101.1)</td>
<td>side-by-side</td>
<td>6</td>
<td>EDT56AP</td>
<td>EMN22i or EMN50</td>
</tr>
</tbody>
</table>

1. Bulk containers also available, contact Simpson Strong-Tie for details.
2. Cartridge and bulk estimation guides are available.
3. Detailed information on dispensing tools, mixing nozzles and other adhesive accessories is available.
4. Use only appropriate Simpson Strong-Tie mixing nozzle in accordance with Simpson’s instructions. Modification or improper use of mixing nozzle may impair epoxy performance.

**Cure Schedule**

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<th>Base Material Temperature</th>
<th>Cure Time</th>
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<tbody>
<tr>
<td>°F</td>
<td>°C</td>
</tr>
<tr>
<td>40</td>
<td>4</td>
</tr>
<tr>
<td>65</td>
<td>18</td>
</tr>
<tr>
<td>85</td>
<td>29</td>
</tr>
<tr>
<td>90</td>
<td>32</td>
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</table>

**In-Service Temperature Sensitivity**

<table>
<thead>
<tr>
<th>Base Material Temperature</th>
<th>Percent Allowable Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>°F</td>
<td>°C</td>
</tr>
<tr>
<td>40</td>
<td>4</td>
</tr>
<tr>
<td>70</td>
<td>21</td>
</tr>
<tr>
<td>110</td>
<td>43</td>
</tr>
<tr>
<td>135</td>
<td>57</td>
</tr>
<tr>
<td>150</td>
<td>66</td>
</tr>
<tr>
<td>180</td>
<td>82</td>
</tr>
</tbody>
</table>

1. Refer to temperature sensitivity chart for allowable bond strength reduction for temperature. See Supplemental Topics for Adhesive Anchors.
2. Percent allowable load may be linearly interpolated for intermediate base material temperatures.
3. °C = (°F-32) / 1.8
Product Description

**POLY-TEMP® MD Medium Density Thread Seal Tape** is a general purpose PTFE Thread Seal Tape designed to be used on all types of metal and plastic pipe threads.

Our **POLY-TEMP®** Tapes are made from 99.9% virgin PTFE resins for optimum purity and performance. **POLY-TEMP® MD** Medium Density Thread Seal Tape is malleable to easily conform to thread profiles to ensure a positive seal.

Because **POLY-TEMP® MD** Medium Density Thread Seal Tape is composed of pure PTFE, it touts an extremely broad range of chemical compatibilities and is unaffected by most chemicals and concentrations.

**POLY-TEMP® MD** Medium Density Thread Seal Tape is our most popular grade of thread sealing tape and has been Industry Leader for over 30 years.

Features & Benefits

- Meets FDA and USDA requirements
- UL Listed
- Ideal for all taper thread connections
- PTFE’s high lubricity makes for easy assembly
- Only 3 wraps need for most applications
- Chemically inert, non-Toxic
- Suitable for oxygen service
- Our most popular grade of Thread Seal Tape
- Easy to handle and apply
- Temperature range from -400F to 550F (-240°C to 287°C)
- Pressures up to 10,000psi (Liquid), 2000 psi (Gas)
- Connections can be put into service right away, no dry time
- Never dries out and an unlimited shelf life.
- Meets MIL-T-27730A
- Extremely versatile.

Typical Properties

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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</thead>
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<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Thickness</td>
<td>3.5 mils</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.7 to 0.8g/cc</td>
</tr>
<tr>
<td>Toxicity</td>
<td>Non toxic</td>
</tr>
<tr>
<td>RoHS</td>
<td>Compliant</td>
</tr>
</tbody>
</table>

Cautions

Read all information on labels and Material Safety Data Sheets prior to use. All products should be tested and evaluated for a particular purpose prior to use.

Product Limited Warranty

This information is based on information we believe to be reliable and accurate, but no guarantee of its accuracy is made for a particular application. We urge and recommend that Users pretest their application prior to incorporating the product into use and assume that the User will conduct such testing. Also see warranty statement on website.

Available In:

- **Size:** ½"x 60" ¼"x520" ½"x260" ½"x520" ½"x1296"
  - **P/N:** 16006 16025 16030 16035 16040

- **Size:** ½"x260" ¾"x520" 1"x260" 1"x520"
  - **P/N:** 16045 16050 16055 16060

- **Size:** Counter Display ½"x260" 1/2"x520" ¾"x520"
  - **P/N:** 16030A 16035A 16050A

**POLY-TEMP® IS A REGISTERED TRADEMARK OF ANTI-SEIZE TECHNOLOGY**