**MATERIAL**

- **LITHIUM GREASE**
- **N/A**
- **0000G**

**REPRODUCED IN WHOLE OR IN PART, FOR ANY OTHER USE WITHOUT THE SOLELY FOR USE ON THIS PROJECT. THESE DRAWINGS MAY NOT BE COMMERCIAL AVAILABLE/COMPATIBLE EPOXY**

**TEFLON**

**POLYPROPYLENE PER ASTM D4101**

**1" BALL VALVE (TEMPORARY)**

**PLUG**

**STEP-BY-STEP INSTALLATION PROCEDURE ARE GENERIC, FOLLOW FDOT AND PROJECT SPECIFICATION REQUIREMENTS.**

**g.**

**f.**

**e.**

**d.**

**c.**

**b.**

**a.**

**MAKE SURE O-RING AND WASHER IS INSTALLED WITH GROUT CAP BOLT.**

**INSTALL CORRECT SIZE AND LENGTH OF HEAT SHRINK PER MANUFACTURER'S RECOMMENDATIONS.**

**INSTALL TEMPORARY GROUT INJECTION HARDWARE.**

**INSTALL VENTS. (SEE NOTE b)**

**PLACE SNAP RING THROUGH SNAP COUPLER AND INTO SECOND CORRUGATION OF TRUMPET.**

**PLACE SNAP RING THROUGH SNAP COUPLER AND INTO SECOND CORRUGATION OF TRUMPET.**

**TURN TRUMPET INTO BEARING PLATE AND ENSURE GROUT PORT HOLES LINE UP. USE STRAP WRENCH IF NECESSARY.**

**PLACE O-RING IN LARGE CORRUGATION OF TRUMPET. (SEE NOTE: a)**

**SLIDE SNAP COUPLER OVER TRUMPET AND DUCT.**

**SLIDE SLIP COUPLER OVER TRUMPET AND DUCT.**

**HEAT SHRINK TIGHTEN (PULL 15%) ADHESIVE LINED POLYESTER.**

**INSTALL TEMPORARY HARDWARE ONCE GROUTING PROCEDURE IS COMPLETE AND CAP OR PLUG PORTS PER DRAWINGS.**

**STRESS TENDONS AFTER CONCRETE HAS REACHED REQUIRED STRENGTH PER DRAWINGS AND/OR SPECIFICATION.**

**STAY-IN-MOLD BACKUP MATERIAL FOR GROUTING.**

**REMOVE ALL TEMPORARY HARDWARE ONCE GROUTING PROCEDURE IS COMPLETE AND CAP OR PLUG PORTS PER DRAWINGS.**

**FOR ACTUAL LOCATION, SEE PLACING DRAWINGS. VENT CAN BE ORIENTED TO ACT AS DRAIN.**

**MAKE SURE O-RING AND WASHER IS INSTALLED WITH GROUT CAP BOLT.**

**NOTE FOR REFERENCE ONLY. ACTUAL LOCATION, SEE PLACING DRAWINGS. VENT CAN BE ORIENTED TO ACT AS DRAIN.**

**LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.**

**LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.**

**INSTALL STRAND, LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.**

**INSTALL VENTS FOR REFERENCE ONLY. FOR ACTUAL LOCATION, SEE PLACING DRAWINGS. VENT CAN BE ORIENTED TO ACT AS DRAIN.**

**INSTALL CORRECT SIZE AND LENGTH OF HEAT SHRINK PER MANUFACTURER'S RECOMMENDATIONS.**

**STEP-BY-STEP INSTALLATION PROCEDURE**

**STEP 9:** INSTALL STRAND, LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.

**STEP 8:** INSTALL TEMPORARY GROUT INJECTION HARDWARE.

**STEP 7:** PERFORM VACUUM TEST PER FDOT 462-8.2.1.2

**STEP 6:** INSTALL HARDWARE ONCE GROUTING PROCEDURE IS COMPLETE AND CAP OR PLUG PORTS PER DRAWINGS.

**STEP 5:** INSTALL TEMPORARY GROUT INJECTION HARDWARE.

**STEP 4:** INSTALL STRAND, LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.

**STEP 3:** INSTALL TEMPORARY GROUT INJECTION HARDWARE.

**STEP 2:** INSTALL HARDWARE ONCE GROUTING PROCEDURE IS COMPLETE AND CAP OR PLUG PORTS PER DRAWINGS.

**STEP 1:** INSTALL TEMPORARY GROUT INJECTION HARDWARE.
COIL THREAD FOR 21MM GROUT TUBE

SDI 22.6-PC BEARING PLATE

PART NO.: 72007
MATERIAL: ASTM A 536 GR. 80-55-56 (GALVANIZED)
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 3" = 1'-0"

(2) $\frac{3}{4}$" DIA. HOLES ON A 12" B.C.
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**STANDARD O-RINGS**

**MATERIAL: BUNA-N**

**MATERIAL MEETS ALL SPECIFICATIONS.**

---

**SCHWAGER DAVIS, INC.**
**DESIGN-BUILD CONTRACTOR**
**198 HILLSDALE AVENUE**
**SAN JOSE, CA 95136**

PHONE: 408.281.9300  FAX: 408.281.9301
www.schwagerdavis.com

**DRAWING No: SDI-HD-236**

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---

**STANDARD O-RINGS**

**SCHWAGER DAVIS, INC.**
**POST-TENSION SYSTEM LIBRARY**
SDI 22.6 TRUMPET

PART NO: 73005
MATERIAL: HDPE
MATERIAL MEETS ALL SPECIFICATIONS,
SCALE: 3" = 1'-0"

CUT HERE FOR GALV. DUCT
CUT HERE FOR SCHEDULE 40 STEEL PIPE
**SDI 22.6-PC SPIRAL**

**PART NO.: 74029**

**MATERIAL:** GRADE 60 STEEL ACCORDING TO ASTM A615

#4 REBAR - 17" O.D.

6 TURNS AT 3.5" PITCH

MATERIAL MEETS ALL SPECIFICATIONS.

SCALE: 1-1/2" = 1'-0"

**NOTE:** PROJECT SPECIFIC REQUIREMENTS WILL SUPERSEDE BURSTING STEEL REQUIREMENTS OF THIS SHEET
SDI 22.6-PC PERMANENT GROUT CAP

PART NO.: 75004
MATERIAL: NYLON 6, 30% GLASS FILLED
MATERIAL MEETS ALL SPECIFICATIONS,
SCALE: 3" = 1'-0"

13MM GROUT HOSE THREAD (SIDE PORT)
13MM GROUT HOSE THREAD (TOP PORT)
(4) HOLES FOR \( \frac{3}{8} \)" BOLTS

SDI 22.6-PC
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"
77010 - SDI 1.38-PC PERMANENT CAP BOLTS (L= 1.5"

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

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

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DRAWING No: SDI-HD-149

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0.6" BARE STRAND

PART NO: 21001
MATERIAL: 270 KSI LOW RELAXATION STEEL ACCORDING TO ASTM A416
MATERIAL 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"

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"
SDI 4" CORRUGATED PLASTIC DUCT

PART NO.: 32005
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
BENDING RADIUS: 15 FT
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

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SDI 4" SNAP-ON DUCT COUPLER

PART NO.: 33205
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

SDI 4.0 33205

SDI DUCT COUPLER, INC.
DESIGN-BUILD CONTRACTOR
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SAN JOSE, CA 95136
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SDI 4" SNAP-ON DUCT COUPLER
PART NO.: 33205
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
SDI 4" SNAP RING

PART NO: 33305

MATERIAL: POLYPROPYLENE

CELL CLASS RANGE: PP0340B44541 TO PP0340B37864

MATERIAL MEETS ALL SPECIFICATIONS.

SCALE: 6" = 1'-0"

SDI 4" SNAP RING

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SCHWAGER DAVIS, INC.
POST-TENSION SYSTEM LIBRARY

DRAWING No: SDI-HD-169

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SDI 4" SLIP-ON DUCT COUPLER

PART NO.: 33005
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

SDI 4" SLIP-ON DUCT COUPLER

SDI 4.0 33005

MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

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DESIGN-BUILD CONTRACTOR
198 HILSDALE AVENUE
SAN JOSE, CA 95136
PHONE: 408.281.9300
FAX: 408.281.9301
www.schwagerdavis.com
HEAT SHRINK TUBING (PLA-115-YE)

PART NO.: 37005
MATERIAL: POLYOLEFIN
TUBULAR SLEEVE DIAMETER: 5.50" [140mm] AS SUPPLIED
3.80" [97mm] FULLY RECOVERED
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
NOTE: FOLLOW MANUFACTURE’S INSTALLATION INSTRUCTIONS

THESE DRAWINGS CONTAIN PROPRIETARY INFORMATION RESTRICTED SOLELY FOR USE ON THIS PROJECT. THESE DRAWINGS MAY NOT BE REPRODUCED IN WHOLE OR IN PART, FOR ANY OTHER USE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF SCHWAGER DAVIS INC. (SDI). SDI DOES NOT MAKE ANY JUDGMENT NOR WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN BY OTHERS AND HEREBY DISCLAIMS ANY LIABILITY FOR DESIGNS OF OTHERS.

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PART NO.: 37005
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HEAT SHRINK TUBING (PLA-115-YE)

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DESIGN-BUILD CONTRACTOR
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SCHWAGER DAVIS, INC.
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SCHWAGER DAVIS, INC.

DRAWING No: SDI-HD-186

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**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**

- Before welding together the carrier pipe, slide the Canusa Tube Sleeve at least 1 m away from the cutback area of the joint.
- Ensure that the PE coating edges are beveled to 30°. Clean exposed steel and adjacent pipe coating with a solvent cleaner to remove the presence of oil, grease, and other contaminants.
- Wipe clean or air blast the steel and pipe coating to remove foreign 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.
- Completely remove the inner release liner from the sleeve and centre the sleeve over the area to be sealed.

**Equipment List**

- Propane tank, hose, torch & regulator
- Appropriate tools for surface abrasion
- Knife, roller, rags & approved solvent cleaner
- 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**

Using the appropriate sized torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes.

CANUSA-CPS is registered to ISO 9001:2000.
Canusa Tube™ - PLA

Sleeve Installation

13

14

15

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.

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.

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

Backfilling Guidelines

17

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.

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 4" SEGMENT COUPLER SLIDE HOUSING
PART NO.: 33109
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL PROJECT SPECIFICATIONS.
SCALE: 6" = 1'-0"
SDI 4" SEGMENT COUPLER SEAL

PART NO.: 33111
MATERIAL: BUNA-N PER ASTM D2240, & D412
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
SDI 4" SEGMENT COUPLER WELDED HOUSING

PART NO.: 33108
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B4451 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.

SCALE: 6" = 1'-0"

SDI 4" SEGMENT COUPLER WELDED HOUSING

SDI 4.0 33108

MSC
MSC
JSA
MSC
06/26/18
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)

PART NO.: 52008
MATERIAL: PVC
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
1/2" NOM. (13mm) NPT COUPLER

PART NO.: 53011
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"
13mm GROUT HOSE
PART NO: 51002
MATERIAL: HDPE
MATERIAL MEETS ALL SPECIFICATIONS,
SCALE: 1:0" = 1:0"
1/2" NOM. (13mm) GROUT TUBE COUPLER

PART NO.: 53008
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP03040644G41 TO PP0304067884
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

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

1/2" NOM. (13mm) GROUT TUBE COUPLER
SCHWAGER DAVIS, INC.
POST-TENSION SYSTEM LIBRARY

DRAWING No: SDI-HD-154

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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"

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

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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)

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

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1" DIAMETER BALL VALVE (TEMPORARY)

SCHWAGER DAVIS, INC.
POST-TENSION SYSTEM LIBRARY

SCHWAGER DAVIS INC.

DRAWING No: SDI-HD-152

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3/4" NOM. (23mm) NPT COUPLER

PART NO.: S3005
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL PROJECT SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

3/4" NOM. (23mm) NPT COUPLER

PART NO.: S3005
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL PROJECT SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"
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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SDI GROUT PORT PLUG

PART NO.: 55004
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"
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"

3/4" NOM. (23mm) GROUT TUBE PLUG

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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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DESIGN-BUILD CONTRACTOR
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SAN JOSE, CA 95136
PHONE: 408.281.9300
FAX: 408.281.9301
www.schwagerdavis.com
**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 protect 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>
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<th>GRADE, NLGI</th>
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<tbody>
<tr>
<td>Penetration @ 77° F. (ASTM Worked)</td>
<td>265-295</td>
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<tr>
<td>Dropping Point, ASTM D-2265, °F.</td>
<td>383</td>
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<tr>
<td>Color</td>
<td>Amber</td>
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<tr>
<td>Texture</td>
<td>Butter</td>
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<tr>
<td>Appearance</td>
<td>Smooth</td>
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<tr>
<td>Soap Type</td>
<td>Lithium</td>
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<tr>
<td>Soap, %</td>
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<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>
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<tr>
<td>Emulsification Of Coating</td>
<td>None</td>
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<tr>
<td>Oil Separation, FTM 321.2, Wt.%</td>
<td>0.5</td>
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<tr>
<td>Flash Point, ASTM D-92, Coc, °F</td>
<td>350</td>
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<tr>
<td>Water Content, ASTM D-95, Wt.%</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Base Oil Viscosity</td>
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<tr>
<td>cSt. @ 40° C.</td>
<td>321.0</td>
</tr>
<tr>
<td>cSt. @ 100° C.</td>
<td>21.0</td>
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<tr>
<td>SUS@100° F.</td>
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<tr>
<td>Viscosity Index</td>
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<tr>
<td>Chlorides, PPM ASTM D-512</td>
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<tr>
<td>Nitrates, PPM, ASTM D3867</td>
<td>8.54</td>
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<tr>
<td>Tensile Strength Change Of Polymer, ASTM D638</td>
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</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 load 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 be 70° - 80° F at the time of application. Cartridges 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).

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<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>RESULTS</th>
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<tr>
<td>Consistency</td>
<td>ASTM C 881</td>
<td>Non-sag/thixotropic paste</td>
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<tr>
<td>Heat deflection</td>
<td>ASTM D 648</td>
<td>136° F (58° C)</td>
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<tr>
<td>Bond strength (moist cure)</td>
<td>ASTM C 882</td>
<td>3,218 psi (2 days)</td>
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<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 strength</td>
<td>ASTM D 695</td>
<td>5,065 psi (24 hours)</td>
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<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>Gel time (75° F)</td>
<td>ASTM C 881</td>
<td>30 min - 60 gram mass</td>
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<td>60 min - thin film</td>
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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

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<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>
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<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>
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<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>
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<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>
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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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<tr>
<td>°F</td>
<td>°C</td>
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<tr>
<td>40</td>
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<td>85</td>
<td>29</td>
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In-Service Temperature Sensitivity

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<th>Base Material Temperature</th>
<th>Percent Allowable Load</th>
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<td>°F</td>
<td>°C</td>
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<tr>
<td>40</td>
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<td>70</td>
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<td>110</td>
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<tr>
<td>150</td>
<td>66</td>
</tr>
<tr>
<td>180</td>
<td>82</td>
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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 ( -240C to 287C)
- 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>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
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<tr>
<td>Thickness</td>
<td>3.5 mils</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.7 to 0.8g/cc</td>
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<tr>
<td>Toxicity</td>
<td>Non toxic</td>
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<tr>
<td>RoHS</td>
<td>Compliant</td>
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</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:

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<thead>
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<th>P/N</th>
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</thead>
<tbody>
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<tr>
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<td>16030</td>
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<tr>
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POLY-TEMP® is a registered trademark of Anti-Seize Technology