ALL NON-FERROUS COMPONENTS CONTAIN VIRGIN MATERIAL.

IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN BY OTHERS
SDI DOES NOT MAKE ANY JUDGMENT NOR WARRANTY, EXPRESSED OR

These drawings contain proprietary information restricted

 generals. Follow foot and project specification requirements.

Reference foot standard plans 462-003 for post-tensioning anchorage and tendon filling detail.

Tendon filler material is wax. SDI 12.6 anchor head

Steel per ASTM A536 GR. 80-55-06 (galvanized)

Part number

Item

Shop weld

Reference fdot standard plans 462-003 for post-tensioning anchorage and tendon filling detail.

STEP 11: PUSH WEDGES OVER STRAND AND AGAINST INTO THE ANCHOR HEAD WEDGE CAVITIES USING A 3/8" PIPE.

Step 13: After stressing and approval from owners representative, cut strand tails 1" from face of anchor head.

Step 15: Install vints (see note 9). Step 16: Temporary cap by torquing bolts in a star pattern to 20 ft-lb. (see note 9). Step 17: Perform pressure test. Step 18: Inject wax per wax injection procedure. Step 19: Remove all temporary hardware once piping procedure is complete and cap or plug ports per drawings.

Notes:

a. Lubricate all o-rings for ease of installation.

b. 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.

c. make sure o-rings and washers is installed with grout cap bolt.

d. vents shown for reference only. for actual location, see placing drawings. vent can be oriented to act as drain.

f. Follow butt fusion procedure for all butt joints per manufacturer’s installation procedure.

b. Step by step installation procedure is generic. Follow foot and project specification requirements.

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 Washers is installed with Grout Cap Bolt.

Vents shown for reference only. For actual location, see placing drawings. Vent can be oriented to act as drain.

Follow butt fusion procedure for all butt joints per manufacturer’s installation procedure.

a. Lubricate all o-rings for ease of installation.

B. 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.

c. make sure O-Rings and Washers is installed with grout cap bolt.

d. vents shown for reference only. for actual location, see placing drawings. vent can be oriented to act as drain.

f. Follow butt fusion procedure for all butt joints per manufacturer’s installation procedure.

B. Step by step installation procedure is generic. Follow foot and project specification requirements.

Reference foot standard plans 462-003 for post-tensioning anchorage and tendon filling detail.

Tendon filler material is wax.

Permanent cap and associated hardware are for venting only. Do not inject through permanent cap.
SDI 12.6 ANCHOR HEAD

PART NO.: 71006
MATERIAL: ASTM A 536 GR. 80-55-06
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

(3) \( \frac{1}{8}'' \) - 16 x \( \frac{1}{8}'' \) DEEP BOLT HOLES EQUALLY SPACED ON \( \frac{3}{4}'' \) B.C.
SDI 12.6-PC BEARING PLATE

PART NO.: 72003
MATERIAL: ASTM A 536 GR. 80-55-06
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 3"=1'-0"

COIL THREAD FOR 7/8" NOM. (23MM) GROUT TUBE

(2) 3/8" DIA. HOLES ON A 10" B.C.

SDI 12.6-PC

SDI 12.6-PC BEARING PLATE

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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POST-TENSION SYSTEM LIBRARY

DRAWING No: SDI-HD-051

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SDI 12.6 TRUMPET

PART NO.: 73003

MATERIAL: HDPE

MATERIAL MEETS ALL SPECIFICATIONS,

SCALE: 3" = 1'-0"

SDI 12.6 TRUMPET

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SDI 12.6-PC SPIRAL

PART NO.: 74006
MATERIAL: GRADE 60 STEEL ACCORDING TO ASTM A615
#4 REBAR - 13" O.D.
6 TURNS AT 3" PITCH
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1-1/2" = 1'-0"

NOTE: PROJECT SPECIFIC REQUIREMENTS WILL SUPERSEDE
BURSTING STEEL REQUIREMENTS OF THIS SHEET
SDI 12.6-PC PERMANENT GROUT CAP

PART NO.: 75002

MATERIAL: NYLON MEETING CELL CLASS S-PA0141, S-PA0231, OR S-PA0401
MATERIAL MEETS ALL SPECIFICATIONS.

SCALE: 3" = 1'-0"

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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

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

VARES
SEE LENGTHS BELOW

3/8" [8]
1" [25]

3/8"-16 BOLT & WASHER

SCHWAGER DAVIS, INC.
POST-TENSION
SYSTEM LIBRARY
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)
1/2" NPT BALL VALVE (TEMPORARY)

PART NO.: 52010
MATERIAL: BRASS
PRESSURE RATING 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
1" NPT BALL VALVE TEMPORARY

PART NO.: 52009
MATERIAL: BRASS
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

1” NPT BALL VALVE (BRASS)
0.75" NPT BALL VALVE (TEMPORARY)

PART NO.: 52010
MATERIAL: BRASS
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
1" NPT FEMALE TO MALE 90° ELBOW

PART NO.: 53013
MATERIAL: STEEL PER ASTM A53
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

PART NO.: 53013
MATERIAL: STEEL PER ASTM A53
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"
SDI 3" SLIP-ON DUCT COUPLER

PART NO.: 33004
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

SDI 3" SLIP-ON DUCT COUPLER

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

PART NO.: 37008
MATERIAL: POLYOLEFIN
MATERIAL MEETS ALL SPECIFICATIONS.

1" x 3" & 2" - KLNN-63 WS BK/L 9" HEAT SHRINK SLEEVE
3" - KLNN-90 WS BK/L 9" HEAT SHRINK SLEEVE
4" - KLNN-115 WS BK/L 9" HEAT SHRINK SLEEVE
4.5" & 5" - KLNN-125 WS BK/L 9" HEAT SHRINK SLEEVE

NOTE: FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS
KLON & KLNN
One-piece protective sleeve with pre-attached closure

Product Description
Canusa WrapSleeves® are shipped pre-cut with a pre-attached closure. The adhesive is protected from contamination by an inner liner.

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

<table>
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<tr>
<th>Pipe O.D. ≤ 450mm (18&quot;)</th>
<th>Pipe O.D. &gt; 450mm (18&quot;)</th>
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<tr>
<td>Use moderate flame intensity for pre-heating and shrinking.</td>
<td>Use moderate to high flame intensity for pre-heating and shrinking.</td>
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Surface Preparation
Ensure that the PE coating edges are beveled 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

1. Centre the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the underlap firmly into place.
2. Remove the remaining release liner.
3. Wrap the sleeve loosely around the pipe, ensuring the appropriate overlap. Gently heat the backing of the underlap and the adhesive side of the overlap.
4. Press the closure firmly into place.

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

Pipe O.D.

<table>
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<tr>
<th>≤ 450mm (18&quot;)</th>
<th>&gt; 450mm (18&quot;)</th>
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<tbody>
<tr>
<td>KLON min. 75°C (167°F)</td>
<td>KLON min. 90°C (195°F)</td>
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<tr>
<td>KLNN min. 90°C (195°F)</td>
<td>KLNN min. 90°C (195°F)</td>
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Minimum Torch Size

<table>
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<tr>
<th>≤ 450mm (18&quot;)</th>
<th>&gt; 450mm (18&quot;)</th>
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<tr>
<td>150,000 BTU/hr.</td>
<td>300,000 BTU/hr.</td>
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Pipe O.D.

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<th>&gt; 450mm (18&quot;)</th>
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<tbody>
<tr>
<td>150,000 BTU/hr.</td>
<td>300,000 BTU/hr.</td>
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Ensure that the pipe is dry before cleaning. Using a power wire brush, abrade the pipe to a minimum of St3/SP3 (abrasive blast to Sa2.5/SP10 recommended). Lightly abrade the pipe coating adjacent to the cutback area to a distance of 50mm (2") beyond each end of the sleeve width.

Pre-heat the joint area to the minimum required temperature. Using a temperature measuring device, ensure that the correct temperature is reached on the steel and at least 50mm (2") on each side of the sleeve.

Pipe O.D.

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Sleeve Installation

1. Centre the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the underlap firmly into place.
2. Remove the remaining release liner.
3. Wrap the sleeve loosely around the pipe, ensuring the appropriate overlap. Gently heat the backing of the underlap and the adhesive side of the overlap.
4. Press the closure firmly into place.

Surface Preparation
Ensure that the PE coating edges are beveled to 30°. Clean exposed steel and adjacent pipe coating with a solvent cleanser to remove the presence of oil, grease, and other contaminants.
Gently heat the closure and pat it down with a gloved hand. Repeating this procedure, move from one side to the other. Smooth any wrinkles by gently working them outward from the centre of the closure with a roller.

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 gently 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.

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.

Backfilling Guidelines

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.

Visually inspect the installed patch 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.

Part No. 91000-266
IG_KLON & KLNN_rev013
SDI 3" SEGMENT COUPLER SLIDE HOUSING

PART NO.: 33101
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

SDI 3.0 - 33101
SCHWAGER DAVIS, INC.
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www.schwagerdavis.com

APPROVED
CHECKED
DRAWN
REVISIONS
DATE

MSC JMY MHA
RELEASE 0 12/06/13

MSC JMY MSC
UPDATE 1 09/19/14

MSC JSA MSC
UPDATE 2 05/26/15

MSC MSA MSC
UPDATE 3 05/26/15

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SDI 3" SEGMENT COUPLER SEAL

PART NO.: 33103
MATERIAL: BUNA-N PER ASTM D2240 & D412
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
SDI 3" SEGMENT COUPLER WELDED HOUSING

PART NO.: 33100
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
3" HDPE EXTERIOR PIPE

PART NO.: 35001
MATERIAL: HDPE WITH A DIMENSION RATIO (DR) OF 17
PRESSURE RATING: 125 PSI
MINIMUM BEND RADIUS: 12 FT
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
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"

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"
HDPE WELDABLE GROUT PORT WITH 3/4" NOM. (23mm) GROUT THREAD

PART NO.: 57004
MATERIAL: HDPE
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

NOTE: FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
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"
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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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" Nominal (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"
1/2" MALE BARB HOSE ADAPTOR

PART NO.: 53014
MATERIAL: BRASS
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

1/2" MALE BARB HOSE ADAPTOR

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

MSC
MSC
JSA
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08/08/18
1/2" CLEAR HIGH TEMP. VACUUM TUBE

PART NO.: 59001
MATERIAL: FLUORINATED ETHYLENE PROPYLENE
PRESSURE RATING: 180 PSI @ 72° F
TEMPERATURE RANGE: -100° TO 400° F
BENDING RADIUS: 3"
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

0.63" [15.9]
0.50" [12.7]
0.06" [1.6]
3/4" POLYPROPYLENE NPT CAP

PART NO.: 55023
MATERIAL: POLYPROPYLENE
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

SDI 3/4" POLYPROPYLENE NPT CAP
SCHWAGER DAVIS, INC.
POST-TENSION SYSTEM LIBRARY

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-161

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<td>MHA</td>
<td>MSC</td>
<td>MSC</td>
<td>06/28/18</td>
</tr>
</tbody>
</table>
1/2" POLYPROPYLENE NPT CAP

PART NO.: 55021
MATERIAL: POLYPROPYLENE
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

1/2" POLYPROPYLENE NPT CAP

SCHWAGER DAVIS, INC.
DESIGN-BUILD CONTRACTOR
198 HILLSDALE AVENUE
SAN JOSE, CA 95136
PHONE: 408.281.9300
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MSC  MSC
MSC  MSC
06/28/18

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3/4" NPT PIPE NIPPLE
PART NO.: 51005
MATERIAL: HIGH DENSITY POLYETHYLENE
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

RELEASE
0
REVISIONS

3/4" NPT PIPE NIPPLE
(HDPE)
SCHWAGER DAVIS, INC.
POST-TENSION
SYSTEM LIBRARY

SCHWAGER DAVIS, INC.
DESIGN-BUILD CONTRACTOR
198 HILLSDALE AVENUE
SAN JOSE, CA 95136
PHONE: 408.281.9300
FAX: 408.281.9301
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<table>
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<tr>
<td>0</td>
<td>RELEASE</td>
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</table>
1" NPT PIPE NIPPLE (TEMPORARY)

PART NO.: 51003
MATERIAL: STEEL, ASTM A53
THREADS PER ANSI/ASME B1.20.1
PRESSURE RATING 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

LENGTH VARIES

1 NPT PIPE SIZE, 11\(\frac{1}{4}\) THREADS PER INCH
0.68" THREAD ENGAGEMENT

1.315" [33]
0.133" [3]
1.049" [27]
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>None</td>
</tr>
<tr>
<td>cSt. @ 40° C.</td>
<td>321.0</td>
</tr>
<tr>
<td>cSt. @ 100° C.</td>
<td>21.0</td>
</tr>
<tr>
<td>SUS@100° F.</td>
<td>74</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>&lt;0.5</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>None</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 FL11506.4
- 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 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).

<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 cure)</td>
<td>ASTM C 882</td>
<td>3,218 psi (2 days) 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) 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 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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<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>
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<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 (-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>
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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:

<table>
<thead>
<tr>
<th>Size</th>
<th>P/N</th>
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</thead>
<tbody>
<tr>
<td>½”x60” ¼”x520” ½”x260” ½”x520” ½”x1296”</td>
<td>16006 16025 16030 16035 16040</td>
</tr>
<tr>
<td>¾”x260” 1”x260” 1”x520”</td>
<td>16045 16050 16055 16060</td>
</tr>
<tr>
<td>Counter Display ½”x260” 1/2”x520” ¾”x520”</td>
<td>16030A 16035A 16050A</td>
</tr>
</tbody>
</table>

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