SDI 27.6 ANCHOR HEAD

PART NO.: 71012
MATERIAL: ASTM A 536 OR, 80-65-06
MATERIAL MEETS ALL SPECIFICATIONS,
SCALE: 3" = 1'-0"

SDI 27.6 ANCHOR HEAD

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

SCHWAGER DAVIS, INC.
POST-TENSION SYSTEM LIBRARY

DRAWING No: SDI-HD-061

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SDI 27.6-PC BEARING PLATE

PART NO.: 72009
MATERIAL: ASTM A 536 GR. 80-55-06 (GALVANIZED)
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 3" = 1'-0"

COIL THREAD FOR 21mm GROUT TUBE

(2) 5/8" DIA. HOLES ON A 13" B.C.

SDI 27.6-PC BEARING PLATE

SCHWAGER DAVIS, INC.
DESIGN-BUILD CONTRACTOR
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DRAWING No.: SDI-HD-062

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**STANDARD O-RINGS**

**MATERIAL:** BUNA-N

**STANDARD MEETS ALL SPECIFICATIONS.**

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**SCHWAGER DAVIS, INC.**
**POST-TENSION SYSTEM LIBRARY**

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

**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**
SDI 27.6 TRUMPET

PART NO.: 73006
MATERIAL: HDPE
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1-1/2" = 1'-0"
SDI 27.6-PC6 SPIRAL

PART NO.: 74016
MATERIAL: GRADE 60 STEEL ACCORDING TO ASTM A615
#4 REBAR - 17" O.D.
7.7 TURNS AT 2.25" PITCH
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1-1/2" = 1'-0"

NOTE: PROJECT SPECIFIC REQUIREMENTS WILL SUPERSEDE
BURSTING STEEL REQUIREMENTS OF THIS SHEET

*FOR USE WHEN CONCRETE STRENGTH AT TIME OF
STRESSING IS 6,000 PSI OR HIGHER.*
SDI 27.6-PC PERMANENT GROUT CAP

PART NO.: 75005
MATERIAL: NYLON 66, 30% GLASS FILLED
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 3" = 1'-0"

13MM GROUT HOSE THREAD (TOP PORT)

(3) HOLES FOR \( \times \) - 13 BOLTS

SDI 27.6-PC

750056
"DATE CODE"

SDI 27.6-PC PERMANENT GROUT CAP

SCHWAGER DAVIS, INC.
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DRAWING No.: SDI-HD-064

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1/2"-13 BOLT & WASHER

PART NO.: 77007 - SDI 27.5-PC PERMANENT CAP BOLTS
77009 - SDI 31.6-PC PERMANENT CAP BOLTS

MATERIAL: STAINLESS STEEL, TYPE 316 ACCORDING TO ASTM F593
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

WASHER MAY VARY FROM 0.055" TO 0.065" IN THICKNESS
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

0.6" (15)
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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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 TEMPORARY

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

PART NO.: 33006
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

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SDI 4.5" SLIP-ON DUCT COUPLER

PART NO.: 33006
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 cleaner
- Digital thermometer with suitable probe
- Standard safety equipment
- Gloves, goggles, hard hat, etc.

**Flame Intensity & Torch Size**

- **KLON**: min. 75°C (167°F), Minimum Torch Size: 150,000 BTU/hr.
- **KLNN**: min. 90°C (195°F), Minimum Torch Size: 300,000 BTU/hr.

Use moderate flame intensity for pre-heating and shrinking.

**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. **Pre-Heat**
   - 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.

2. **Pre-Heat**
   - Wipe clean or air blast the steel and pipe coating to remove foreign contaminants.

3. **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.

4. **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.

5. **Sleeve Installation**
   - 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.

6. **Sleeve Installation**
   - Remove the remaining release liner.

7. **Sleeve Installation**
   - 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.

8. **Sleeve Installation**
   - Press the closure firmly into place.
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.

Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the installation guide when used in compliance with Canusa's written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risk and liabilities in connection therewith. Canusa’s liability is stated in the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this installation guide is to be used as a guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product. E&OE

Part No. 99060-266
IG_KLON & KLNN_rev013

Inspection

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.

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.

Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.

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.

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.

Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.

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.

Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.

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.

Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.

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.

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.

Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.

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.

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.

Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.

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.

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.

Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.

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.

Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.

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.

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.

Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.

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.

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.

Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.

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.

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.

Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.

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.

Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.

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.

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.

Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.

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.
SDI 4.5" SEGMENT COUPLER SLIDE HOUSING

PART No.: 33116
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
SDI 4.5" SEGMENT COUPLER SEAL
PART NO.: 33118
MATERIAL: BUNA-N PER ASTM D2240, & D412
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
SDI 4.5" SEGMENT COUPLER WELDED HOUSING

PART NO.: 33115
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

SCHWAGER DAVIS, INC.
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SAN JOSE, CA 95136
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05/26/15

MSC  JSA  MSC  MSC
06/29/18

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4.5" HDPE EXTERIOR PIPE

PART NO.: 35003
MATERIAL: HDPE WITH A DIMENSION RATIO (DR) OF 17
BEND RADIUS: 25 FT
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

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4.5" IPS SDR 17 ASTM F714 PE 470 125 PSI

LENGTH = VARIES

5" [127]

4.5" [112]
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" NPT THREAD

PART NO.: 57055
MATERIAL: HDPE
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

NOTE: FOLLOW MANUFACTURE'S INSTALLATION INSTRUCTIONS.
1/2" NOM. (13mm) NPT COUPLER

PART NO.: S3011
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" POLYPROPYLENE NPT CAP

PART NO.: 55022
MATERIAL: POLYPROPYLENE
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

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1/2" POLYPROPYLENE NPT CAP

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-360

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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"

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1/2" MALE BARB HOSE ADAPTOR

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

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

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SDI 4.5" ELECTROFUSION COUPLER

PART NO.: 33401
MATERIAL: HIGH DENSITY POLYETHYLENE
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

NOTE: FOLLOW MANUFACTURER'S INSTALLATION PROCEDURE

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SDI 4.5" ELECTROFUSION COUPLER

PART NO.: 33401
MATERIAL: HIGH DENSITY POLYETHYLENE
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

NOTE: FOLLOW MANUFACTURER'S INSTALLATION PROCEDURE

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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"

1/4" [27]
1/4" [21]

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"

3/4" NPT PIPE NIPPLE (HDPE)

SCHWAGER DAVIS, INC.
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PHONE: 408.281.9300
FAX: 408.281.9301
www.schwagerdavis.com

SCHWAGER DAVIS, INC.
POST-TENSION SYSTEM LIBRARY

DRAWING No: SDI-HD-363

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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"

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DESIGN-BUILD CONTRACTOR
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SDI-HD-269

1 06/07/16
2 06/18/18
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>
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<th>GRADE, NLGI</th>
<th>2</th>
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<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>
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<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></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>
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<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>
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</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 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).

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

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>
</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>
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</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>
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<tr>
<td>65</td>
<td>18</td>
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<tr>
<td>85</td>
<td>29</td>
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<tr>
<td>90</td>
<td>32</td>
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### In-Service Temperature Sensitivity

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<tr>
<th>Base Material Temperature</th>
<th>Percent Allowable Load</th>
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<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>
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<td>135</td>
<td>57</td>
</tr>
<tr>
<td>150</td>
<td>66</td>
</tr>
<tr>
<td>180</td>
<td>82</td>
</tr>
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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>
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<tr>
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<th>Value</th>
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<tr>
<td>Color</td>
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<tr>
<td>Thickness</td>
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<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>
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**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:** ¾”x260” ⅞”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