**DRAWING No:** SDI-HD-340  
**RELEASE** 25  
**CHECKED** 25  
**APPROVED** 14  
**REVISED** 25  
**MSC** 14  
**DRAWN** 25  
**DATE** 10/11/18  
**STEP-BY-STEP SYSTEM INSTALLATION PROCEDURE**

**STEP 1:** Hang anchorage with 2 each 3/8" x 2.5" bolts & washers.

**STEP 2:** Perform vacuum test per FDOT 462-8.2.1.2.

**STEP 3:** Stress tendons after concrete has reached required strength per drawings and/or specification.

**STEP 4:** Place bursting reinforcing support bar.

**STEP 5:** Install trumpet. Make sure gasket is installed between trumpet and anchorage.

**STEP 6:** Perform pressure test per FDOT 462-8.2.1.2.

**STEP 7:** Install strand, leave sufficient strand for stressing equipment.

**STEP 8:** Install permanent cap by torquing bolts to 20 ft-lb.

**STEP 9:** Install temporary hose/coupler/plug threads. Thread into all connections. Do not inject through vents.

**STEP 10:** Injec flex filler per flex filler injection procedure. Remove all temporary hardware once flex filler 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 hose/coupler/plug threads. Teflon tape is to be used on every temporary hose/coupler/plug threads. All connections do not inject through vents.

c. Make sure o-ring and washer are installed with permanent cap bolt.

d. Edge wedge cavities are rust free and clean prior to wedge installation.

**ITEM | PART NUMBER | DRAWING | DESCRIPTION | MATERIAL |
--- | --- | --- | --- | --- |
1 | SDI-HD-376 | SDI 4.6A FLEXIBLE ANCHORAGE | ASTM A 578 GR. 80-88-06 (GALVANIZED) |
2 | SDI-HD-228 | BUTT JOINT | N/A |
3 | SDI-HD-231 | SDI 4.6A ROUND TRUMPET | POLYPREPELENE PER ASTM D4101 |
4 | SDI-HD-238 | BURSTING REINFORCING | STEEL PER ASTM A415 |
5 | SDI-HD-268 | BURSTING REINFORCING SUPPORT BAR | STEEL PER ASTM A415 |
6 | SDI-HD-070 | SDI 4.6A-PC PERMANENT GROUT CAP | NYLON PER ASTM D5899 |
7 | SDI-HD-236 | O-RING SEAL | N/A |
8 | SDI-HD-149 | 3/8 x 2.5 BOLTS & WASHERS | STAINLESS STEEL, TYPE 316 |
9 | SDI-HD-226 | O-RING SEAL | N/A |
10 | SDI-HD-148 | 4" STRAND | 27X060 STEEL PER ASTM A41, LOW RELAXATION |
11 | SDI-HD-321 | 1/2 IN. STANDARD 2-PART WEDGE | A311 L17 OR L14-14 |
12 | SDI-HD-337 | NPT BALL VALVE (TEMPORARY) | BRASS |
13 | SDI-HD-372 | NPT BALL VALVE (TEMPORARY) | BRASS |
14 | SDI-HD-395 | NPT MALE BARBED HOSE ADAPTOR (TEMPORARY) | BRASS |
15 | SDI-HD-363 | NPT PIPE NIPPLE | STEEL PER ASTM A45 |
16 | SDI-HD-270 | NPT PIPE NIPPLE | STEEL PER ASTM A45 |
17 | SDI-HD-387 | ALUM HEAT SHRINK TUBE | ADHESIVE LINED POLYOLEFIN |
18 | SDI-HD-394 | CLEAR HIGH TEMP. VACUUM TUBE (TEMPORARY) | FLUORINATED ETHYLENE POLYPROPYLE |
19 | SDI-HD-391 | NPT CAP | POLYPREPELENE PER ASTM D4101 |
20 | SDI-HD-390 | NPT CAP | POLYPREPELENE PER ASTM D4101 |
21 | SDI-HD-253 | 2" (50mm) ID HDPE PIPE | HIGH DENSITY POLYETHYLENE PER ASTM D2513, F1966 |
22 | SDI-HD-172 | 23" (590mm) WELDABLE GROUT PORT | HIGH DENSITY POLYETHYLENE PER ASTM D2513, F1966 |
23 | SDI-HD-222 | 1/4" (19mm) NPT COUPLER (TEMPORARY) | POLYPREPELENE PER ASTM D4101 |
24 | SDI-HD-295 | 4-6A SPL-ON GASKET | BUNA-N PER ASTM D3245, D4112 |
25 | SDI-HD-071 | N/A | COMMERCIALLY AVAILABLE/COMPATIBLE EPOXY |
26 | SDI-HD-077 | N/A | EPOXY |
27 | SDI-HD-148 | 1/4" (6.4mm) NPT PLAIN TUBE (TEMPORARY) | THERMOPOLYMER |

*All non-ferrous components contain virgin material.*
SDI 4.6A FLEXIBLE FILLER ANCHORAGE

SDI 4.6A MATERIAL:
- ASTM A 536 GR. 80-55-06 (GALVANIZED)
- MATERIAL MEETS ALL SPECIFICATIONS.
- SCALE: 6" = 1'-0"

INLET/OUTLET/VENT
1/2" NTP PIPE SIZE
14 THREADS PER INCH

3/8" THREADED BOLT HOLE. TYP.

SDI 4.6A FLEXABLE FILLER ANCHORAGE
PART NO.: 71022
MATERIAL: ASTM A 536 GR. 80-55-06 (GALVANIZED)
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

SDI 4.6A FLEXIBLE FILLER ANCHORAGE
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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SDI-HD-376
DRAWING No:

MATERIAL:
- ASTM A 536 GR. 80-55-06 (GALVANIZED)
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

INLET/OUTLET/VENT
1/2" NTP PIPE SIZE
14 THREADS PER INCH

3/8" THREADED BOLT HOLE. TYP.

SDI 4.6A MATERIAL:
- ASTM A 536 GR. 80-55-06 (GALVANIZED)
- MATERIAL MEETS ALL SPECIFICATIONS.
- SCALE: 6" = 1'-0"

INLET/OUTLET/VENT
1/2" NTP PIPE SIZE
14 THREADS PER INCH

3/8" THREADED BOLT HOLE. TYP.

SDI 4.6A FLEXIBLE FILLER ANCHORAGE
PART NO.: 71022
MATERIAL: ASTM A 536 GR. 80-55-06 (GALVANIZED)
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

INLET/OUTLET/VENT
1/2" NTP PIPE SIZE
14 THREADS PER INCH

3/8" THREADED BOLT HOLE. TYP.

SDI 4.6A MATERIAL:
- ASTM A 536 GR. 80-55-06 (GALVANIZED)
- MATERIAL MEETS ALL SPECIFICATIONS.
- SCALE: 6" = 1'-0"

INLET/OUTLET/VENT
1/2" NTP PIPE SIZE
14 THREADS PER INCH

3/8" THREADED BOLT HOLE. TYP.

SDI 4.6A FLEXIBLE FILLER ANCHORAGE
PART NO.: 71022
MATERIAL: ASTM A 536 GR. 80-55-06 (GALVANIZED)
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

INLET/OUTLET/VENT
1/2" NTP PIPE SIZE
14 THREADS PER INCH

3/8" THREADED BOLT HOLE. TYP.
SDI 4.6A TRUMPET GASKET

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

PART NO.: 73011
MATERIAL: POLYPROPYLENE PER ASTM D4101
CELL CLASS RANGE: PP0340B45641 TO PP0340B67884
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

SDI 4.6A-R
73011
SDI 4.6A STANDARD BURSTING REINFORCEMENT

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

SDI 4.6A BURSTING REINFORCEMENT
PART NO.: 74031
MATERIAL: GRADE 60 STEEL ACCORDING TO ASTM A615
#3 REBAR, 2EA SETS OF BENT BARS
#3 REBAR, 4EA STRAIGHT BARS
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1-1/2" = 1'-0"

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

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SDI 4.6A-PC BURSTING REINFORCEMENT
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FAX: 408.281.9301
www.schwagerdavis.com

DRAWING No: SDI-HD-258

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SDI 4.6A-PC PERMANENT GROUT CAP

PART NO.: 75006
MATERIAL: NYLON MEETING CELL CLASS S-PA0141, S-PA0231, OR S-PA0401
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"

(2) HOLES FOR 1/8" BOLTS

SDI 4.6A-PC PERMANENT GROUT CAP

SCHWAGER DAVIS, INC.
POST- TENSION SYSTEM LIBRARY

DRAWING No: SDI-HD-070

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**STANDARD O-RINGS**

**MATERIAL:** BUNA-N

**STANDARD MEETS ALL SPECIFICATIONS.**

---

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

**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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**DRAWN:** MHA **CHECKED:** MSC **APPROVED:** MSC **DATE:** 03/15/15

**REVISIONS**

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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= 2.5")
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' = 1/8"
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"
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)

SDI 0.6" WEDGE (2-PART)

SDI 0.6" WEDGE (2-PART)

SDI 0.6" WEDGE (2-PART)

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SDI 0.6" WEDGE (2-PART)

SDI 0.6" WEDGE (2-PART)

SDI 0.6" WEDGE (2-PART)

SDI 0.6" WEDGE (2-PART)
1/2" NPT BALL VALVE (TEMPORARY)

PART NO.: 52011
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"
1/2" MALE BARB HOSE ADAPTOR

PART NO.: 53014
MATERIAL: BRASS
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"
1/2" NPT PIPE NIPPLE

PART NO.: 51006
MATERIAL: STEEL PER ASTM A53
PRESSURE RATING: 150 PSI
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

MSC
MSC
JSA
09/05/18

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0.75" NPT PIPE NIPPLE

PART NO.: 51004

MATERIAL: STEEL
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 1'-0" = 1'-0"

SCHWAGER DAVIS, INC.
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FAX: 408.281.9301
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KLNN HEAT SHRINK

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

1" x 3" & 2" - KLNN-83 WS BK/L 9" HEAT SHRINK SLEEVE
3" - KLNN-95 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
Canusa WrapSleeves® are shipped pre-cut with a pre-attached closure. The adhesive is protected from contamination by an inner liner.

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.

Center the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o’clock positions. Press the underlap firmly into place.

Partial remove the release liner and gently heat the underlap approximately 150 mm (6") from the edge.

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.

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

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.

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.

Part No. 99060-266
IG_KLON & KLNN_rev013
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"

3/4" POLYPROPYLENE NPT CAP

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

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).
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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"

1/2" POLYPROPYLENE NPT CAP

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

PART NO.: 35007
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"

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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 MANUFACTURE'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) NPT COUPLER

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
MSC
10/10/14

1
UPDATE
CSM
MSC
MSC
05/26/15

2
UPDATE
JSA
MSC
MSC
06/19/18

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SDI 4.6A SLAP-ON GASKET

PART NO.: 76026
MATERIAL: ADHESIVE-BACK, WEATHER RESISTANT
BUNA-N, \( \frac{3}{8} \)" THICK
MATERIAL MEETS ALL SPECIFICATIONS.
SCALE: 6" = 1'-0"
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

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 ounces (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

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

In-Service Temperature Sensitivity

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

1. Refer to temperature sensitivity chart for allowable bond strength reduction for temperature. See Supplemental Topics for Adhesive Anchors.
2. Percent allowable load may be linearly interpolated for intermediate base material temperatures.
3. °C = (°F-32) / 1.8
POLY-TEMP® MD
MEDIUM DENSITY THREAD SEAL TAPE

WWW.ANTISEIZE.COM

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

Cautions

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

Product Limited Warranty

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

Available In:

- Size: ½”x 60” ⅜”x520” ½”x260” ½”x520” ½”x1296”
  P/N: 16006 16025 16030 16035 16040
- Size: ¾”x260” ⅜”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