DESCRIPTION
Sure Anchor J50 is a two component, 100% solids, moisture tolerant, high modulus epoxy gel adhesive that meets ASTM C881 and AASHTO M235.

USE
Sure Anchor J50 is ideal for anchoring bolts, dowels and reinforcing steel in concrete. It is also ideal for vertical and horizontal structural bonding and patching. Sure Anchor J50 may be used to seal cracks and set injection ports prior to injection grouting.

FEATURES
- High-strength structural adhesive
- Ideal for anchoring dowels, bolts, reinforcing steel and threaded rod
- Moisture tolerant
- Non-sag gel consistency
- Excellent adhesion

PROPERTIES
ASTM C881, AASHTO M235 Types I, II, IV, V Grade 3, Classes B & C
Mix ratio
1 part A to 1 part B by volume
Mixed color Gray
Consistency Non-sag gel

Gel Time 60 gm mass
40 minutes at 75°F (24°C)
Compressive Strength (ASTM D695)
10,500 psi (72.4 MPa) at 7 days
Concrete Bond Strength (ASTM C882)
2 days 2500 psi (17.2 MPa)
14 days 4400 psi (30.3 MPa)
Compressive Modulus (ASTM D695)
223,000 psi (1537.5 MPa)
Tensile Strength (ASTM D638)
8000 psi (55.1 MPa)
Shear Strength (ASTM D732)
3200 psi (22 MPa)
Flexural Strength (ASTM D790)
5400 psi (37.2 MPa)
Water Absorption (ASTM D570) 0.12%
Elongation (ASTM D638) 2.60%
Shrinkage (ASTM C883) Passes
Thermal Compatibility (ASTM C884) Passes

PACKAGING

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PACKAGE</th>
<th>SIZE</th>
</tr>
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<tbody>
<tr>
<td>307449</td>
<td>Cartridge</td>
<td>20 oz 600 ml</td>
</tr>
<tr>
<td>139888</td>
<td>Cartridge</td>
<td>50.7 oz 1500 ml</td>
</tr>
<tr>
<td>307447</td>
<td>Unit</td>
<td>1 gal 3.79</td>
</tr>
<tr>
<td>307448</td>
<td>Unit</td>
<td>2 gal 7.57</td>
</tr>
<tr>
<td>307451</td>
<td>Unit</td>
<td>10 gal 37.85</td>
</tr>
</tbody>
</table>

When using a pneumatic dispenser for the 1500ml cartridges the pressure to the gun must be 60-70psi to get consistent mixing

STORAGE
The material should be stored at 40°-95°F (5°-35°C). Shelf life of properly stored, unopened containers is 24 months.

Surface Preparation:
Surface to be bonded must be clean and sound. Remove dust, dirt, grease, laitance, curing compounds and other foreign matter by sandblasting, mechanical abrasion or hydro blasting. For drilled holes, clean with a nylon bristle brush. Remove all water and dust with clean compressed air prior to installation. Air and surface temperature must be 40°F (5°C) or above.

VOC
Sure Anchor J50 has a VOC content of 0 g/L. Compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

Tension Loads
(Pull-Out Tests with Threaded Rod)

<table>
<thead>
<tr>
<th>Rod Diameter</th>
<th>Hole Diameter</th>
<th>Hole Depth</th>
<th>4000 psi (27 MPa)</th>
<th>5500 psi (38 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8” (1 cm)</td>
<td>7/16” (1.2 cm)</td>
<td>3-3/8” (8.6 cm)</td>
<td>8250 lbs. (36.7 kN)</td>
<td>9200 lbs. (40.9 kN)</td>
</tr>
<tr>
<td>3/4” (1 cm)</td>
<td>7/16” (1.2 cm)</td>
<td>5-5/8” (14.3 cm)</td>
<td>11,360 lbs. (50.5 kN)</td>
<td>11740 lbs. (52.2 kN)</td>
</tr>
<tr>
<td>1/2” (1.3 cm)</td>
<td>9/16” (1.4 cm)</td>
<td>4½” (11.4 cm)</td>
<td>11,730 lbs. (52.2 kN)</td>
<td>12920 lbs. (66.1 kN)</td>
</tr>
<tr>
<td>1/2” (1.3 cm)</td>
<td>9/16” (1.4 cm)</td>
<td>7½” (19.0 cm)</td>
<td>17,010 lbs. (75.7 kN)</td>
<td>19360 lbs. (86.1 kN)</td>
</tr>
<tr>
<td>5/8” (1.6 cm)</td>
<td>3/4” (1.9 cm)</td>
<td>5-5/8” (14.3 cm)</td>
<td>18,870 lbs. (84.0 kN)</td>
<td>22940 lbs. (102.0 kN)</td>
</tr>
<tr>
<td>5/8” (1.6 cm)</td>
<td>3/4” (1.9 cm)</td>
<td>9-3/8” (23.8 cm)</td>
<td>26,260 lbs. (116.8 kN)</td>
<td>30960 lbs. (137.7 kN)</td>
</tr>
<tr>
<td>3/4” (1.9 cm)</td>
<td>7/8” (2.2 cm)</td>
<td>6½” (17.1 cm)</td>
<td>25,670 lbs. (115.1 kN)</td>
<td>29360 lbs. (130.6 kN)</td>
</tr>
<tr>
<td>3/4” (1.9 cm)</td>
<td>7/8” (2.2 cm)</td>
<td>11½” (28.6 cm)</td>
<td>34,340 lbs. (152.8 kN)</td>
<td>38360 lbs. (170.6 kN)</td>
</tr>
</tbody>
</table>

TECHNICAL DATA SHEET

Visit www.daytonsuperior.com for the most up to date technical information
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Mixing:
Condition material to 65°- 85°F (18°- 29°C) before using, “pre-purging” the cartridge before putting on the static mixer to ensure uniform mixing. Premix each component, then mix equal volumes of Part A and Part B for 3 minutes with a low speed drill using a jiffy mixer or paddle. Mix only what can be used during the pot life.

General Application Procedure:
Step 1: Drill hole in concrete using a rotary-percussion power drill (rotary-hammer drill) and a carbide-tipped SDS or SDS-Plus type drill bit complying with ANSI B212.15-1994, to the diameter and embedment depth adhering to minimum spacing, minimum edge distance, and minimum concrete member thickness.

Caution: Wear suitable eye and skin protection. Avoid inhalation of dust during drilling and debris removal.

Step 2: Blow out hole using oil-free compressed air at a minimum of 70 psi with a nozzle. While blowing air, insert the nozzle into the hole until in contact with the bottom for not less than one second, and then withdraw.

Step 3: Insert a cleaning brush for the proper drill hole diameter. Thrust the brush to the bottom of the borehole while twisting. Once the brush is in contact with the bottom of the hole, turn the brush one-half revolution, and then quickly withdraw the brush with a vigorous, twisting pull. Repeat.

Step 4: Repeat blow out of hole with air as per Step 2 above. Concrete shall be dry before injection of adhesive.

Step 5: When using cartridge insert the cartridge into the extrusion tool, and attach the supplied mixing nozzle to the cartridge. Do not modify mixing nozzle. Prior to injection, dispense material through the mixing nozzle in a continuous bead until a uniform light gray color is achieved. Initial dispensed material will be darker gray in color and should not be used for installation. After uniform light gray color is achieved, insert the end of the mixing nozzle into the borehole until in contact with the bottom. Then, dispense the adhesive while slowly withdrawing the nozzle until borehole is approximately 1/2 - 2/3 full, and then withdraw the mixing nozzle. Keep the nozzle attached on partially used cartridges. A new mixing nozzle must be used if the gel time has been exceeded between injections.

Step 6: Mark the anchor rod with the required embedment depth. Insert the clean and oil-free anchor rod into the adhesive in the borehole, turning it slowly as it is pushed downward until contact with the bottom of the borehole. Make sure the hole is completely filled with adhesive and that no gaps appear between the anchor rod and borehole.

Step 7: Adjust the alignment of the anchor in the hole immediately. Do not disturb it between the Gel Time and the Minimum Cure Time. Do not torque or apply load to the anchor until the Recommended Cure Time.

Recommended Cure Times
Minimum cure time required before the design or allowable load may be applied. Anchors are to be undisturbed during the minimum cure time. Cure time is the time required before the epoxy reaches ultimate strength.

<table>
<thead>
<tr>
<th>Substrate Temp.</th>
<th>Minimum Cure Time</th>
<th>Cure Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fahrenheit</td>
<td>Celsius</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>18</td>
<td>24 hours</td>
</tr>
<tr>
<td>70</td>
<td>21</td>
<td>12 hours</td>
</tr>
<tr>
<td>80</td>
<td>27</td>
<td>6 hours</td>
</tr>
<tr>
<td>100</td>
<td>38</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

CLEAN UP
Tools and Equipment: Clean before the epoxy sets. Use xylene or Dayton Superior Citrus Cleaner J48.
LIMITATIONS

FOR PROFESSIONAL USE ONLY
Do not thin with solvents. Surface and ambient temperature must be 40°F (5°C) or above. Do not expose stored product to cold or freezing temperature (below 35°F, 2°C) for any length of time.

PRECAUTIONS

READ SDS PRIOR TO USING PRODUCT
- Component A – Irritant
- Component B – Corrosive
- Product is a strong sensitizer
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements
- Cured epoxy resins are innocuous

MANUFACTURER
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Website: www.daytonsuperior.com

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