

All Weather Chemical Anchoring

Chemical anchoring can be challenging at certain times of the year. Winter brings cold temperatures and springtime brings a lot of wet weather. The All Weather J51 AW epoxy anchoring adhesive offers excellent performance in both situations as it can cure at temperatures as low as -15°F (-26°C) and it can be installed in damp or water filled holes. In accord with the ACI 318-11 Structural Concrete Building Code, adhesive anchors “should be installed in concrete having a minimum age of 21 days at the time of anchor installation”.

Some of the unique benefits of the All Weather J51 AW are:

- Meets ASTM C-881 and AASHTO M-235 Types I, II, IV, V, Class A, B, C, Grade 3 (with exception of gel time).
- VOC compliant with 100% solids
- VOC is “0” g/L
- Available in 275 ml and 825 ml cartridges

Applications in Cold Weather:

- Store All Weather J51 AW @ 40°-95°F (5°-35°C)
- Precondition the All Weather J51 AW to 65°-85°F (18°-29°C) prior to use
- All surfaces in contact with the All Weather J51 AW must be free of frost and ice
- Pneumatic guns are recommended during temperatures below 40°F (5°C) and for larger projects where high production is required.

Applications in Water Filled Holes:

1. Concrete must be a minimum of 21 days old.
2. Drill or core the hole
3. Flush - Insert a suitably sized piece of tubing and Flush the hole with water from the bottom up until the water runs clear
4. Clean - Insert a stainless steel wire “bottle” brush and scrub the walls of the hole
5. Repeat steps 2 and 3 to ensure all loose matter or mud is expelled.
6. Trial fit the cartridge mixing nozzle extension – Ensure the extension extends to the bottom of the hole
7. Discharge a small amount of epoxy outside the hole - Ensure complete mixing is achieved shown by uniform gray color.
8. Overfill the hole with epoxy from the bottom up in one continuous lift - Withdraw the mixing nozzle extension just below the rising surface of the epoxy. Do not allow water filled voids to occur within the epoxy mass
9. Immediately insert the anchor and rotate to ensure that all embedded surfaces are covered
10. Position or restrain the anchor in it’s final position immediately after insertion
11. Do not disturb or vibrate the anchor until set has occurred, movement can detrimentally affect the pullout strength of the connection.
12. All surfaces that All Weather J51 AW will be installed on must be free of frost and ice.

Tools/Equipment Accessories

Stainless steel wire brushes

<u>Brush Product Number</u>	<u>Thread Rod Diameter</u>	<u>Rebar</u>	<u>Drill Bit Diameter</u>	<u>Brush Diameter</u>	<u>Length</u>
141856	3/8"	#3	7/16"	9/16"	8"
141857	1/2"	#4	9/16"	11/16"	8"
141854	5/8"	#5	3/4"	7/8"	8"
141855	3/4"	#6	7/8"	1"	12"
141879	7/8"	#7	1"	1 1/8"	12"
141858	1"	#8	1 1/8"	1 1/4"	12"
141878	1 1/4"	#9	1 3/8"	1 1/2"	12"
141859		#10	1 1/2"	1 5/8"	12"

Caulking Guns

141680
140953

T825 Manual 10:1 Gun (28 OZ.)
AT825 Pneumatic 10:1 Gun (28 OZ.)

