



# CRN-2100-250 CONCRETE REPAIR NON SAG COMPOUND

HIGH STRENGTH EPOXY ADHESIVE

**ITEM NUMBER** CRN-2100-250

## **DESCRIPTION**

CRN-2100-250 CONCRETE REPAIR NON SAG COMPOUND is a two-component, 100% solids, moisture-insensitive, high strength, high modulus, multi-purpose epoxy gel adhesive. It meets the current ASTM C881 and AASHTO M235 Types I, II, IV & V Grade 3, Class B & C specifications.

## **WHERE TO USE**

Use for installation of all reinforcing steel, dowels, threaded rods, bolts, and inserts into existing concrete. Can also be used as a multipurpose bond adhesive for structural bonding fresh or hardened concrete to hardened concrete, sealing cracks, setting injection ports prior to injection grouting, and as a pick-proof sealant.

## **ADVANTAGES**

- High strength, high modulus
- Non-sag gel consistency
- Easy dispensing
- Made in America
- Moisture Tolerant
- Solvent Free
- Convenient 1:1 mix ratio by volume

## **PACKAGING**

- 250 ml uni-cartridge

## **TECHNICAL DATA**

Shelf Life:	2 years year in original unopened container.
Storage Conditions:	40°F – 95°F (5°C – 35°C).
Condition material to:	65°F – 85°F (18°C – 29°C) before using.
Mix Ratio	1:1 by volume
Viscosity	¼ inch non-sag gel
Gel Time (60 g mass)	10 minutes
Initial Cure Time (73°F or 23°C)	2 to 3 hours
Tensile Properties (ASTM D638), 7 day cure	
Tensile Strength:	7,500 psi (51.7 MPa)
Tensile Elongation:	1.2%
Bond Strength (ASTM C882)	
1-day cure:	2,000 psi (13.8 MPa)
7-day cure:	2,500 psi (17.2 MPa)
Compressive Properties (ASTM D695), 7 day cure	
Compressive Strength:	12,500 psi (86.2 MPa)
Compressive Modulus:	300,000 psi (2,070 MPa)
Shear Strength (ASTM D732)	2,800 psi (19.3 MPa)
Shrinkage on Cure (ASTM D2566)	0.001
Thermal Compatibility (ASTM C884)	Pass
Heat Deflection Temperature (ASTM D648)	140°F (60°C)
Water Absorption (ASTM D570)	0.1% (24 hr)



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## ESTIMATING GUIDE (NORMAL WEIGHT CONCRETE)

ROD DIA. IN.(MM)	DRILL BIT DIA. IN.(MM)	EMBED. DEPTH IN.(MM)	HOLES PER 600ML (250ML) CART.	TENSION LOAD BASED ON BOND STRENGTH		ALLOWABLE TENSION LOAD LBS.(KN) BASED ON STEEL STRENGTH		
				ULTIMATE LBS.(KN)	ALLOWABLE LBS.(KN)	F1554 GRADE 36	A193 GRADE B7	F593 304SS
3/8 (9.5)	1/2 (12.7)	3 3/8 (8.6)	<b>115</b> <b>(50)</b>	9,800 (43.6)	2,450 (10.9)	2,105 (9.4)	4,535 (20.2)	3,630 (16.1)
1/2 (12.7)	5/8 (15.9)	4 1/2 (11.4)	<b>65</b> <b>(25)</b>	16,400 (73.0)	4,100 (18.2)	3,750 (16.7)	8,080 (35.9)	6,470 (28.8)
5/8 (15.9)	3/4 (19.1)	5 5/8 (14.3)	<b>30</b> <b>(15)</b>	25,200 (112.1)	6,300 (28.0)	5,875 (26.1)	12,660 (56.3)	10,120 (45.0)
3/4 (19.1)	7/8 (22.2)	6 3/4 (17.1)	<b>18</b> <b>(7)</b>	36,000 (160.1)	9,000 (40.0)	8,460 (37.6)	18,230 (81.1)	12,400 (55.2)
7/8 (22.2)	1 (25.4)	7 7/8 (20.0)	<b>15</b> <b>(6)</b>	48,000 (213.5)	12,000 (53.4)	11,500 (51.2)	24,785 (110.2)	16,860 (75.0)
1 (25.4)	1 1/8 (28.6)	9 (22.9)	<b>10</b> <b>(4)</b>	62,000 (275.8)	15,500 (69.0)	15,025 (66.8)	32,380 (144.0)	22,020 (97.9)
1 1/4 (31.8)	1 3/8 (34.9)	11 1/4 (286)	<b>6</b> <b>(3)</b>	96,000 (427.0)	24,000 (106.8)	23,490 (104.5)	50,620 (225.2)	34,420 (153.1)

### APPLICATION

**SURFACE PREPARATION:** Surface must be clean and sound. Surface must be free of standing water. Remove curing compounds, laitance, grease, asphalt, rubber and any foreign matter or unsound surface.

**HOLE PREPARATION:** DRILL hole to specified diameter and depth; BLOW dust from the bottom of the hole with oil-free compressed air for at least four seconds; BRUSH clean with a specified brush for at least four cycles; BLOW again from the bottom of the hole for at least four seconds. REPEAT BRUSH and BLOW procedures when necessary.

**ANCHOR INSTALLATION:** For dry or damp hole, FILL hole 1/2 to 2/3 full from bottom up with CRN-2100-250. For water-filled hole, fill hole completely full from bottom up. INSERT clean anchor turning slowly until the anchor contacts the bottom. DO NOT DISTURB anchor until CRN-2100-250 fully cured. CRN-2100-250 can also be dispersed with automatic pump equipment.

### LIMITATIONS

Minimum substrate temperature is 40°F (5°C). Pre-condition CRN-2100-250 to 65°-95°F (18°-35°C) for easy-dispersing. Do not thin. Solvents will prevent proper cure.

### CLEAN UP

Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations. Uncured material can be removed with Aquabond Natural Clean or other approved solvent. Cured material can only be removed mechanically.

### LIMITED WARRANTY

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