



**CONCRETE
CHEMICALS**



**ANCHORING SYSTEMS
FOR
CONSTRUCTION • INDUSTRY • REPAIR**

- CAPSULE ANCHORS
- POURABLE - EPOXY - POLYESTER - EPOXY ACRYLATE SYSTEMS
- DUAL CARTRIDGE - POLYESTER
- BULK RESIN SYSTEMS
- CARTRIDGE ANCHORS - POLYESTER
- CARTRIDGE ANCHORS - CEMENT FONDU
- DUAL CARTRIDGE - EPOXY ACRYLATE

A DIVISION OF: REDCO SALES LIMITED

3 RONELL CRES., UNIT 1, COLLINGWOOD, ONTARIO L9Y 4J6

TEL:(705) 446-0110

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PRODUCT	LIQUID ROC 300 CAPSULES	DUAL CARTRIDGE CHEMROC 800 POLYESTER	DUAL CARTRIDGE CHEMROC 400 EPOXY ACRYLATE	BULK EPOXY RESIN 100% SOLIDS No. 902																																																																																																																																												
USE	- For fast high strength anchoring of machinery, rails, bridge expansion joints, dowels, underwater anchoring of sewage water plants & harbour facilities	- Horizontal & overhead anchoring - High Strength - putty material - Dowels - underwater anchoring - Anchoring in non-uniform substrates - Architectural rehabilitation - Seismic anchoring - Cementing two unmatched surfaces - MTO approved	- Horizontal & overhead anchoring - High Strength - putty material - Dowels - underwater anchoring - Anchoring in non-uniform substrates - Architectural rehabilitation - Seismic anchoring - Cementing two unmatched surfaces - MTO approved	- Pourable for vertical anchoring of rod - rebar - Dowels for new concrete - Bridge expansion joints - Machinery anchoring																																																																																																																																												
SIZES	3/8" (10mm) #3206 1/2" (12mm) #3208 5/8" (16mm) #3210 3/4" (20mm) #3212 1" (24mm) #3214	12 fl.oz. - 330 ml - 20 cu. in. 28 fl.oz. - 825 ml - 50 cu. in.	12 fl.oz. - 330 ml - 20 cu. in. 28 fl. oz. - 825 ml - 50 cu. in.	4 litre																																																																																																																																												
COVERAGE	1 or more (to max of 3) capsules per hole	<p>APPROX. NO. OF FIXINGS PER 825 ml</p> <table border="1"> <thead> <tr> <th>Imbedment</th> <th colspan="6">Hole Diameter (inches)</th> </tr> <tr> <th></th> <th>3/8"</th> <th>1/2"</th> <th>5/8"</th> <th>3/4"</th> <th>7/8"</th> <th>1"</th> </tr> </thead> <tbody> <tr> <td>3"</td> <td>104</td> <td>75</td> <td>57</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>6"</td> <td>52</td> <td>38</td> <td>29</td> <td>23</td> <td>19</td> <td>15</td> </tr> <tr> <td>9"</td> <td>35</td> <td>25</td> <td>19</td> <td>15</td> <td>12</td> <td>10</td> </tr> <tr> <td>12"</td> <td>26</td> <td>19</td> <td>14</td> <td>11</td> <td>9</td> <td>7</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Screen Length</th> <th colspan="6">Screen Diameter (inches)</th> </tr> <tr> <th></th> <th>3/8"</th> <th>1/2"</th> <th>5/8"</th> <th>3/4"</th> <th>7/8"</th> <th>1"</th> </tr> </thead> <tbody> <tr> <td>6"</td> <td>31</td> <td>20</td> <td>14</td> <td>7</td> <td>-</td> <td>-</td> </tr> <tr> <td>10"</td> <td>19</td> <td>12</td> <td>8</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Imbedment	Hole Diameter (inches)							3/8"	1/2"	5/8"	3/4"	7/8"	1"	3"	104	75	57	-	-	-	6"	52	38	29	23	19	15	9"	35	25	19	15	12	10	12"	26	19	14	11	9	7	Screen Length	Screen Diameter (inches)							3/8"	1/2"	5/8"	3/4"	7/8"	1"	6"	31	20	14	7	-	-	10"	19	12	8	4	-	-	<p>APPROX. NO. OF FIXINGS PER 825 ml</p> <table border="1"> <thead> <tr> <th>Imbedment</th> <th colspan="6">Hole Diameter (inches)</th> </tr> <tr> <th></th> <th>3/8"</th> <th>1/2"</th> <th>5/8"</th> <th>3/4"</th> <th>7/8"</th> <th>1"</th> </tr> </thead> <tbody> <tr> <td>3"</td> <td>104</td> <td>75</td> <td>57</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>6"</td> <td>52</td> <td>38</td> <td>29</td> <td>23</td> <td>19</td> <td>15</td> </tr> <tr> <td>9"</td> <td>35</td> <td>25</td> <td>19</td> <td>15</td> <td>12</td> <td>10</td> </tr> <tr> <td>12"</td> <td>26</td> <td>19</td> <td>14</td> <td>11</td> <td>9</td> <td>7</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Screen Length</th> <th colspan="6">Screen Diameter (inches)</th> </tr> <tr> <th></th> <th>3/8"</th> <th>1/2"</th> <th>5/8"</th> <th>3/4"</th> <th>7/8"</th> <th>1"</th> </tr> </thead> <tbody> <tr> <td>6"</td> <td>31</td> <td>20</td> <td>14</td> <td>7</td> <td>-</td> <td>-</td> </tr> <tr> <td>10"</td> <td>19</td> <td>12</td> <td>8</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Imbedment	Hole Diameter (inches)							3/8"	1/2"	5/8"	3/4"	7/8"	1"	3"	104	75	57	-	-	-	6"	52	38	29	23	19	15	9"	35	25	19	15	12	10	12"	26	19	14	11	9	7	Screen Length	Screen Diameter (inches)							3/8"	1/2"	5/8"	3/4"	7/8"	1"	6"	31	20	14	7	-	-	10"	19	12	8	4	-	-	244 cu. in. (4000 ml)
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APPLICATION & INSTALLATION METHOD	- Select proper drill size for Capsule from chart - Drill to required depth - Clean hole thoroughly - Insert Capsule - Attach setting tool - Rotate rod and drill to bottom of hole through Capsule	- Select proper drill size - approx. 1/8" larger than rod - Drill to required depth - Clean hole - Attach nozzle - Insert into dispensing gun & dispense into hole - If using screens fill screen & insert into hole - Insert rod or dowel - See product brochure for pictorial description	- Select proper drill size - approx. 1/8" larger than rod - Drill to required depth - Clean hole - Attach nozzle - Insert into dispensing gun & dispense into hole - If using screens fill screen & insert into hole - Insert rod or dowel - See product brochure for pictorial description	- Drill hole to required depth - Clean hole thoroughly - Mix premeasured components - Pour into hole - fill to 1/3-1/2 depth - Insert rod - Add more resin if necessary																																																																																																																																												
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PRODUCT	POURABLE POLYESTER No. 910	GROUND CONTROL Cartridge Anchors	DUAL CARTRIDGE LIQUID ROC 300 POLYESTER	AMBEX CEMENT FONDU CARTRIDGE																																																																				
USE	<ul style="list-style-type: none"> - Pourable for vertical anchoring of rod - rebar - Dowels for new concrete - Bridge expansion joints - Machinery anchoring 	<ul style="list-style-type: none"> - Rockbolting - Dowelling - Vibration resistant anchors for heavy machinery - Structural anchoring 	<ul style="list-style-type: none"> - Horizontal & overhead anchoring - High Strength - putty material - Dowels - underwater anchoring - Anchoring in non-uniform substrates - Architectural rehabilitation - Seismic anchoring - Cementing two unmatched surfaces - MTO approved 	<ul style="list-style-type: none"> - Horizontal & overhead anchoring - High Strength - putty material - Dowels - underwater anchoring - Anchoring in non-uniform substrates - Structural rehabilitation - MTO approved 																																																																				
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COVERAGE	244 cu. in. (4000 ml)	1 or more cartridges per hole (See detailed product literature for selection guide)	APPROX. NO. OF FIXINGS PER 825 ml <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="6">Imbedment Hole Diameter (inches)</th> </tr> <tr> <th>3/8"</th> <th>1/2"</th> <th>5/8"</th> <th>3/4"</th> <th>7/8"</th> <th>1"</th> </tr> </thead> <tbody> <tr> <td>3"</td> <td>104</td> <td>75</td> <td>57</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>6"</td> <td>52</td> <td>38</td> <td>29</td> <td>23</td> <td>19</td> <td>15</td> </tr> <tr> <td>9"</td> <td>35</td> <td>25</td> <td>19</td> <td>15</td> <td>12</td> <td>10</td> </tr> <tr> <td>12"</td> <td>26</td> <td>19</td> <td>14</td> <td>11</td> <td>9</td> <td>7</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="6">Screen Length Screen Diameter (inches)</th> </tr> <tr> <th>3/8"</th> <th>1/2"</th> <th>5/8"</th> <th>3/4"</th> <th>7/8"</th> <th>1"</th> </tr> </thead> <tbody> <tr> <td>6"</td> <td>31</td> <td>20</td> <td>14</td> <td>7</td> <td>-</td> <td>-</td> </tr> <tr> <td>10"</td> <td>19</td> <td>12</td> <td>8</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		Imbedment Hole Diameter (inches)						3/8"	1/2"	5/8"	3/4"	7/8"	1"	3"	104	75	57	-	-	-	6"	52	38	29	23	19	15	9"	35	25	19	15	12	10	12"	26	19	14	11	9	7		Screen Length Screen Diameter (inches)						3/8"	1/2"	5/8"	3/4"	7/8"	1"	6"	31	20	14	7	-	-	10"	19	12	8	4	-	-	1 or more cartridges per hole (See detailed product literature for selection guide)
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CURE TIME	Initial set at 20°C (70°F) 10 min Full Cure at 20°C (70°F) 6 hrs.	Initial set: 1 - 2 min. 2 - 4 min. 15 - 30 min. Full cure: 30 min. to 1 hour	20°C (68°F) 10 min. 15°C (58°F) 20 min. 10°C (50°F) 20 min. 5°C (41°F) 1 hour 0°C (32°F) 1 hour -5°C (23°F) 5 hours -10°C (14°F) 24 hours	Working time - 15 min. Initial set - 20 min. Initial cure (at 20°C) - 25 - 30 min. Final set - 60 - 90 min. Full cure - 3 days																																																																				
STANDARD PACKAGING	1 x 4 litre unit/box	#23305 - 55 per case #24305 - 50 per case #25305 - 45 per case #27305 - 40 per case #28305 - 35 per case #30305 - 35 per case #32305 - 30 per case #35305 - 25 per case #40305 - 20 per case #45305 - 15 per case	#7521050 - 10 per box #7521041 - 5 per box	M3RR - 25 mm - 42 per box Safe Set - 19 mm - 42 per box																																																																				
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• ANCHORING PRODUCT SELECTION CHART •

	Liquid Roc 300 Capsules	Dual Cartridge Chemroc 800	Dual Cartridge Chemroc 400	902	Pourable Polyester 910	Ground Control Resin Cartridges	Dual Cartridge Liquid Roc 300	Ambex Cement Fondu Cartridge
Anchoring BOLTS	X	X	X	X	X	X	X	X
DOWELS	X	X	X	X	X	X	X	X
MACHINE	X	X	X	X	X	X	X	X
VERTICAL	X	X	X	X	X	X	X	X
OVERHEAD	X	X	X			X	X	X
HORIZONTAL	X	X	X			X	X	X
REPAIR	X	X	X			X	X	X

MATERIAL REQUIREMENTS FOR GROUTING DOWELS			
Dia. in Inches	Cu. In. per Inch Deep	Dia. in Inches	Cu. In. per Inch Deep
1/4	0.05	2 1/4	4.00
1/2	0.50	2 1/2	4.90
3/4	0.45	2 3/4	5.95
1	0.80	3	7.05
1 1/4	0.80	3 1/4	8.30
1 1/2	1.75	3 1/2	9.60
1 3/4	2.40	3 3/4	11.05
2	3.15	4	12.55
<p>EXAMPLE</p> <p>1 1/2" hole - 1" dowel - 12" deep</p> <p>How much grout?</p> <p>1.75 minus 0.80 = 0.95 cu. in. void</p> <p>0.95 x 12 = 11.4 cu. in. of grout required.</p>			
MISCELLANEOUS DATA			
1 imp. gal. - 277 Cu. In.		1 Sq. Ft. = 144 Sq. In.	
1 imp. gal. = 160 Fl. Oz.		1 Sq. Yd. = 9 Sq. Ft.	
6.24 imp. gal. = 1 Cu. Ft.		1 Mil = 0.01 In.	
1 Cu. Ft. = 1728 Cu. In.		100 Lbs. Sand = Appr. 6 Imp. gal.	

LIQUID		+	SAND		=	GROUT		
						SAND VOID PERCENT		
						20	30	40
1 Part	+	1 Part	1.8 Parts	1.7 Parts	1.6 Parts			
1 Part	+	1 1/2 Part	2.3 Parts	2.1 Parts	1.9 Parts			
1 Part	+	2 Part	2.7 Parts	2.4 Parts	2.1 Parts			
1 Part	+	2 1/2 Part	3.0 Parts	3.0 Parts	2.5 Parts			
1 Part	+	3 Part	3.4 Parts	3.1 Parts	3.0 Parts			
1 Part	+	3 1/2 Part	3.8 Parts	3.5 Parts	3.5 Parts			
1 Part	+	4 Part	4.2 Parts	4.0 Parts	4.0 Parts			
1 Part	+	4 1/2 Part	4.7 Parts	4.5 Parts	4.5 Parts			
1 Part	+	5 Part	5.0 Parts	5.0 Parts	5.0 Parts			

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