



# ITL Reinforced Concrete Roll®

## ITL RCR® Solutions

### SAVE TIME AND INSTALLATION COSTS WITH ITL REINFORCED CONCRETE ROLL®



Bank Stabilization



Culvert Repair



Irrigation Canal



Erosion Control



Swale



Splash Pad

### UNROLL AND GO IN A FRACTION OF THE TIME.

#### STRONG & VERSATILE

ITL Reinforced Concrete Roll® is a dry powdered cement mix that is needle-punched between two sheets of non-woven polypropylene. When rolled out and hydrated, ITL RCR® takes shape into a durable structure suitable for reinforcement or protective lining.

#### REDUCE CARBON FOOTPRINT

ITL Reinforced Concrete Roll® is a friendlier solution to conventional erosion control methods such as traditional concrete, shotcrete, grout blankets and rip-rap.



Available in two thicknesses: 7mm and 12mm.

#### U.S. Distribution Centers

Moses Lake, Washington | Fostoria, Ohio | Odessa, Texas  
[www.itlrcr.com](http://www.itlrcr.com) | 1 (800) 346-7744

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### TECHNICAL DATA

| ITL RCR®          |  | Imperial        | Metric   |
|-------------------|--|-----------------|----------|
| Roll Width/Length |  | 16' 4" x 65' 7" | 5m x 20m |
| Total Coverage    |  | 1,076 ft²       | 100m     |

  

| Properties of geotextile    | Test Method | Imperial              | Metric                |
|-----------------------------|-------------|-----------------------|-----------------------|
| Grab Tensile Strength       | ASTM D4632  | 80 lbs                | 356 N                 |
| Grab Tensile Elongation     | ASTM D4632  | 50%                   | 50%                   |
| Trapezoid Tear              | ASTM D4533  | 30 lbs                | 133 N                 |
| CBR Puncture                | ASTM D6241  | 210 lbs               | 934 N                 |
| Permittivity                | ASTM D4491  | 2.2 sec <sup>-1</sup> | 2.2 sec <sup>-1</sup> |
| WaterFlow Rate              | ASTM D4491  | 160 gpm/ft²           | 6,519 l/min/m²        |
| Apparent Opening Size (AOS) | ASTM D4751  | 70 USSieve            | 0.212mm               |
| UV Stability @ 500 hrs      | ASTM D4355  | 70%                   | 70%                   |

  

| Properties of cement | Test Method      | Imperial        | Metric          |
|----------------------|------------------|-----------------|-----------------|
| Chemical Composition | XRF Spectroscopy | Sand-Cement Mix | Sand-Cement Mix |
| Initial Setting Time | PN-EN 196-3      | ≥ 25 minutes    | ≥ 25 minutes    |

  

| Properties of ITL RCR® - Before Hydration | Test Method           | Imperial          | Metric         |
|---|-----------------------|-------------------|----------------|
| Thickness                                 | ASTM D5199            | 0.51 inches       | 13.1 mm        |
| Mass / Unit Area                          | ASTM D5993            | 397.1 oz/sq.yd    | 13,465 gsm     |
| Tensile Strength                          | ASTM D6768            | MD = 136 lbs/inch | MD = 23.9 N/mm |
|   | ASTM D6768            | TD = 191 lbs/inch | TD = 33.5 N/mm |
|   | ASTM D4595            | MD = 135 lbs/inch | MD = 23.6 N/mm |
|   | ASTM D4595            | TD = 188 lbs/inch | TD = 32.8 N/mm |
| Weight of RCR-12®                         | Certified Trade Scale | 2,850 lbs/roll    | 1,290 kg/roll  |
| Weight of RCR-7®                          | Certified Trade Scale | 1,700 lbs/roll    | 770 kg/roll    |

  

| Properties of ITL RCR® - After Hydration                            | Test Method     | Imperial                 | Metric                   |
|---|-----------------|--------------------------|--------------------------|
| Large-Scale Channel Testing<br>Determination by Trapezoidal Channel | ASTM D6460      | 0.022 Manning's <i>n</i> | 0.022 Manning's <i>n</i> |
| Compressive Strength - 24 hour cure                                 | ASTM C109       | 5,303 psi                | 36.6 MPa                 |
| Compressive Strength - 7 day cure                                   | ASTM C109       | 6,823 psi                | 47 MPa                   |
| Compressive Strength - 28 day cure                                  | ASTM C109       | 7,222 psi                | 50 MPa                   |
| Peel Strength   | ASTM D6496      | 6.94 lb/in               | 121.6 N/10cm             |
|   | ASTM D6496      | 5.77 lb/in               | 1,009.9 N/m              |
| Thickness   | ASTM D5199      | 0.54 inches              | 13.6 mm                  |
| Mass / Unit Area  | ASTM D5261      | 486.1 oz/sq.yd           | 16,480 gsm               |
| Flexural Strength   | ASTM D8058      | MD = 578 psi             | MD = 3.98 MPa            |
|   | ASTM D8058      | TD = 538 psi             | TD = 3.71 MPa            |
| Puncture Resistance   | ASTM D4833      | 280 lbs                  | 1,245 N                  |
| Puncture Resistance - Rigid Substrate                               | ASTM D5494      | 3,782 lbs                | 16,824 N                 |
| Index Flux (& Permeability)   | ASTM D5887      | 3.20E-11 ft/sec          | 9.74E-12 m/sec           |
|   | ASTM D5887      | 5.25E-09 ft³/ft²/sec     | 1.60E-09 m³/m²/sec       |
| Abrasion Resistance - Mass Loss                                     | ASTM C1353      | 0.18 oz                  | 5.17 grams               |
|   | ASTM D6768      | MD = 207 lbs/inch        | MD = 36.2 N/mm           |
| Tensile Strength  | ASTM D6768      | TD = 255 lbs/inch        | TD = 44.6 N/mm           |
|   | ASTM D4595      | MD = 189 lbs/inch        | MD = 33.1 N/mm           |
|   | ASTM D4595      | TD = 228 lbs/inch        | TD = 40.0 N/mm           |
|   | PN EN 12467:5.6 | B,s1,d0                  | B,s1,d0                  |

  

| ITL RCR® Certifications   | Test Method   | Acceptance Number |
|---|---|-------------------|
| U.S. Department of Labor<br>Mine Safety and Health Administration | Acceptance of Flame-Resistant Solid Products Taken into Mines | MSHA IC-375/02    |

Contact us for a free product sample!

Leo Cortez

Product Manager

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Learn more at [itlRCR.com](http://itlRCR.com)

**PREMIUM QUALITY. BUILT TO LAST.**

OVER 40 YEARS OF PROVIDING QUALITY PRODUCTS.

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