ProSpec® C-1107 Construction Grout is a high strength, nonmetallic, cementitious structural grout.

**Features**
- Exceeds ASTM C 1107
- Interior/exterior
- Pumpable
- Flowable
- Non-Shrink
- Non-Corrosive
- Meets Corps of Engineers Specification CRD-C 621

**Uses**
For structural grouting and general purpose structural grouting:
- For use above, at or below grade
- Steel bearing plates
- Column bases
- Structural columns
- Anchor bolts
- Rebar anchoring
- Equipment bases
- Sole plates
- Tilt-up panels
- Crane rails
- Compressors, generators and pumps
- Bug hole repair

**Technical Data**

<table>
<thead>
<tr>
<th></th>
<th>Plastic</th>
<th>Flowable</th>
<th>Fluid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing Water</td>
<td>3.1 qts.**</td>
<td>3.4 qts.**</td>
<td>4.1 qts.**</td>
</tr>
<tr>
<td>Set Time ASTM C 191</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial set</td>
<td>3 hours</td>
<td>5.5 hours.</td>
<td>7.5 hours</td>
</tr>
<tr>
<td>Final set</td>
<td>4 hours</td>
<td>6.5 hours</td>
<td>8 hours</td>
</tr>
<tr>
<td>Compressive Strength ASTM C 109</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24 hours</td>
<td>&gt;4000 psi (MPa)</td>
<td>&gt;3,400 psi (MPa)</td>
<td>&gt;2,600 psi (MPa)</td>
</tr>
<tr>
<td>3 days</td>
<td>&gt;6,100 psi (MPa)</td>
<td>&gt;5,000 psi (MPa)</td>
<td>&gt;4,600 psi (MPa)</td>
</tr>
<tr>
<td>7 days</td>
<td>&gt;7,200 psi (MPa)</td>
<td>&gt;6,100 psi (MPa)</td>
<td>&gt;5,100 psi (MPa)</td>
</tr>
<tr>
<td>28 days</td>
<td>&gt;7,900 psi (MPa)</td>
<td>&gt;7,100 psi (MPa)</td>
<td>&gt;6,500 psi (MPa)</td>
</tr>
</tbody>
</table>

**NOTE:** Can be used in repairing voids in concrete due to improper consolidation.

**Bleeding and Expansion (%)**

<table>
<thead>
<tr>
<th></th>
<th>Plastic</th>
<th>Flowable</th>
<th>Fluid</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM C 940</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Expansion</td>
<td>0.000</td>
<td>0.625</td>
<td>1.250</td>
</tr>
<tr>
<td>Bleeding</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

**Early Height Change (% Change)**

<table>
<thead>
<tr>
<th></th>
<th>Plastic</th>
<th>Flowable</th>
<th>Fluid</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM C 827</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final Set</td>
<td>0.0 - 2.0%</td>
<td>0.0 - +2.0%</td>
<td>0.0 - 2.0%</td>
</tr>
</tbody>
</table>

**Height Change (%)**

<table>
<thead>
<tr>
<th></th>
<th>Plastic</th>
<th>Flowable</th>
<th>Fluid</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM C 1090</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24 hours</td>
<td>0.0 - +0.25</td>
<td>0.0 - +0.25</td>
<td>0.0 - +0.25</td>
</tr>
<tr>
<td>3 days</td>
<td>0.0 - +0.25</td>
<td>0.0 - +0.25</td>
<td>0.0 - +0.25</td>
</tr>
<tr>
<td>7 days</td>
<td>0.0 - +0.25</td>
<td>0.0 - +0.25</td>
<td>0.0 - +0.25</td>
</tr>
<tr>
<td>28 days</td>
<td>0.0 - +0.25</td>
<td>0.0 - +0.25</td>
<td>0.0 - +0.25</td>
</tr>
</tbody>
</table>

**Due to normal raw material and manufacturing variations the published water range may be varied ± 5% to achieve published results.**

Test results obtained under controlled laboratory conditions. Reasonable variations can occur due to atmospheric and job site conditions.
C-1107 CONSTRUCTION GROUT

Preparation
1. Clean area and remove all unsound concrete, grease, oil, paint and any other foreign materials that will inhibit performance.
2. Surface should be saturated with water 4-24 hours prior to placement.
3. Surface should be Saturated Surface Dry (SSD) with no ponding of water, at time of placement.
4. Provide air relief holes in forms where necessary.
5. Release agents are recommended for pre-treating wood forming surfaces that can absorb moisture.

NOTE: It is the responsibility of the installer/applicator to ensure that test areas are performed to determine the suitability of the product for its intended use.

Mixing
1. Place 3/4 of desired mixing water, start mixer then slowly add the dry material. After all of the powder has been added, slowly add the remaining 1/4 water until the desired consistency is achieved.
2. Mix mechanically with a high torque electric drill not to exceed 600 r.p.m. with a paddle type mixing blade or an appropriately sized mortar mixer.
3. Mix for 3-5 minutes to ensure a uniform lump free consistency and place immediately.
4. Addition of cold water at high temperatures or warm water at low temperatures will aid in adjusting the mix temperature.

NOTE: The water quantities shown are approximate and may vary slightly with type of equipment and application conditions.

Water Requirements
Desired grout consistency
Plastic (trowel consistency)
3.1 quarts of clean potable water per 50lb. bag (22.7 kg)
Flowable (pumping consistency)
3.4 quarts of clean potable water per 50lb. bag (22.7 kg)
Fluid (pumping consistency)
4.1 quarts of clean potable water per 50lb. bag (22.7 kg)

Placement
1. Shut down nearby machinery prior to placement.
2. Avoid vibration for 24 hours after placement.
3. Use a mixer large enough to permit continuous placement before any part of the grout has set.
4. Provide vent holes where necessary.
5. Pour and place grout from one side of form to eliminate air voids.
6. A rod, chain or trowel may be used to assist in consolidating the grout and eliminating air voids.
7. Confine grout to ensure minimum surface exposure.
8. For placements greater than 4” (76 mm), extend the grout with 25lbs. (11.3 kg) of washed clean SSD (saturated surface dry) 0.37” (9 mm) graded aggregate per 50lb. (22.7 kg) bag.
9. Forms may be removed after grout has hardened to an initial set.

Curing
Wet cure exposed surface for a minimum of 3 days or apply a curing compound on exposed surface after final set (6 to 7 hours).
Protect from direct sunlight, excessive drying due to elevated temperatures and air movement.

Refer to

Refer to

Refer to
• ACI 308 Standard Practice for Curing Concrete Wet Cure
# C-1107 CONSTRUCTION GROUT

## Clean up
Use water to clean all tools immediately after use.

## Yield
- Neat = 0.41 cu. ft. (11.3 L)
- Extended by 50% with pea gravel = 0.58 cubic feet

## Packaging
50 lb. (22.7 kg) bag

## Shelf Life
One year from date of manufacture.

## Caution
KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Product is alkaline and may burn or irritate upon contact with eyes or skin. Do not take internally. Use of safety goggles, rubber gloves and dust respirator is recommended. Avoid prolonged contact with clothing. This product contains crystalline silica. Take measures to contain and reduce dust. Prolonged exposure to crystalline silica may cause silicosis or other serious delayed lung injury. Avoid breathing dust. For prolonged exposure wear a respirator approved for protection against crystalline silica dust. Crystalline silica has been classified by IARC and NTP as a carcinogen.
1. Apply when air or substrate temperature is between 40°F (4°C) and 90°F (32°C).
2. Retemper without adding additional water.
3. Do not add any materials other than clean potable water.
4. Avoid adding excessive amounts of water.
5. For installation where acids and sulfates are present, a protective coating is required.
6. Do not use vibrators in placing the grout.
7. Do not use in applications of high dynamic loading.

Note: Proper application and installation of all ProSpec products are the responsibility of the end user.