

# The Strong Company, Inc.

## STRONG-PLUG®

**INTENT: To provide a material specifically designed as very fast setting cementitious material for sealing active leaks in preparation for the lining of manholes.**

<p style="text-align: center;"><b>STRONG-PLUG®</b></p> <p>Strong-Seal® Strong-Plug® infiltration control material is a rapid setting cementitious product specifically formulated for leak control. Strong-Seal® Strong-Plug® shall be used to stop minor water infiltration and shall have the following minimum requirements:</p> <p>A. Compressive Strength:            ASTM C109    &gt; 1000 psi at 1 hour                            &gt; 2500 psi at 24 hours</p> <p>B. Freeze/Thaw Resistance:            ASTM C666    After 100 cycles no visible damage</p> <p>C. Sulfate Resistance:            ASTM C267    No weight loss after 15 cycles at 2000 ppm</p> <p>D. Pull-Out Strength:            ASTM C234    14000 lb</p> <p>E. Set Time:            &lt;1 minute</p> <p>H. Packaging:            50 lb pail</p> <p>I. Mix Water:            1 part water to 3 parts Strong-Plug®</p> <p>J. Yield            0.38 ft³ per pail</p>	<p style="text-align: center;"><b>SURFACE PREPARATION</b></p> <p>The area to be repaired must be free of all debris, loose brick, mortar, or concrete. Small cracks should be enlarged by chipping with a hammer and chisel to facilitate filling the crack with Strong-Plug® slurry or dry pack.</p> <p style="text-align: center;"><b>APPLICATION</b></p> <p>Strong-Plug® is hand mixed in quantities such that placement can be made in less than one (1) minute. Mixing should be done near the area to be repaired. Mixing may be done either with a gloved hand, a wooden spoon, or a trowel. In those applications where a slurry is required, water is added to the dry material while stirring so as to produce a consistency fitting for the application, but not to exceed one (1) part water to three (3) parts Strong-Plug® by volume. The placement or working time is related to the amount of water used in making the mix. High water usage increases the set time, but in general, one minute can be considered maximum.</p> <p style="text-align: center;"><b>CURING</b></p> <p>No special curing requirements are needed for Strong-Plug®.</p> <p style="text-align: center;"><b>WEATHER</b></p> <p>No application shall be made to frozen surfaces or if freezing is expected to occur within the substrate within 24 hours after application. Precautions shall be taken to keep the mix temperature at time of application below 90 degrees F. Water temperature shall not exceed 80 degrees F. Chill with ice if necessary.</p> <p style="text-align: center;"><b>PRODUCT TESTING</b></p> <p>Four 2 inch cubes shall be cast each day or from every pallet of product used and shall be properly packaged, labeled and returned to the manufacturer for testing in accordance with the owner's or manufacturer's directions for compression strength per ASTM C109 procedure.</p>
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