



GROUT 12,000

INTENT: To provide a high strength, self-leveling, abrasion resistant cementitious grout for repairing and leveling the bench and inverts of deteriorated storm drains, catch basins, and culverts.

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| <p style="text-align: center;">GROUT 12,000</p> <p>Strong-Seal® Grout 12,000 is a volume stable, self-leveling cementitious grout used to repair the benches and inverts of stormwater structures by filling voids and creating a new level, abrasion resistant surface. Strong-Seal® Grout 12,000 shall have the following minimum requirements:</p> <p>A. Compressive Strength: ASTM C109 > 6,000 psi at 24 hours > 12,000 psi at 28 days</p> <p>B. Tensile Strength: ASTM C496 > 1,200 psi</p> <p>C. Flexural Strength: ASTM C293 > 1,800 psi</p> <p>D. Shrinkage @ 90% R.H.: ASTM C596 0%</p> <p>F. Freeze/Thaw Resistance: ASTM C666 After 300 cycles no visible damage</p> <p>G. Wet Unit Weight: 140 ± 5 lb/ft³</p> <p>H. Packaging: 65 lb bag</p> <p>I. Mix Water: 1.2 – 1.5 gallons per bag</p> <p>J. Yield 0.54 ft³ per bag</p> | <p style="text-align: center;">SURFACE PREPARATION</p> <p>All foreign material shall be removed from metal, concrete, and brick substrates using a high-pressure water spray (minimum 3000 psi). Loose and protruding brick, mortar, and concrete shall be removed using a mason's hammer, chisel and/or scraper.</p> <p>Active leaks shall be stopped using quick setting, specially formulated mixes according to manufacturer's recommendations. Some leaks may require weep holes to localize the infiltration during the application. After application, the weep holes shall be plugged with the quick setting mix prior to application of the final coat. When severe infiltration exists, drilling may be required to pressure grout using grouting procedures. Manufacturer's recommendations shall be followed when pressure grouting is required.</p> <p style="text-align: center;">CURING</p> <p>Caution should be taken to minimize exposure of applied product to sunlight and air movement. If application of additional coats is to be longer than 15 minutes, the structure shall be covered. At no time should the finished product be exposed to sunlight or air movement for longer than 15 minutes before covering or closing access. In extremely hot and arid climates drain shall be shaded while reconstruction is in progress. An ASTM C309 curing compound shall be used after application of final coat and applied per manufacturer's recommendations.</p> <p>The final application shall have the following hold times: storm run-off and surcharge loading - four (4) hours; traffic loading - eight (8) hours.</p> <p style="text-align: center;">WEATHER</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;">PRODUCT TESTING</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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