



STORM SEAL®

INTENT: To provide a cementitious product to structurally rebuild deteriorated storm drains, catch basins, and culverts back to original dimensions and to prevent infiltration and exfiltration of storm water runoff.

STORM SEAL®	SURFACE PREPARATION
<p>Strong-Seal® Storm Seal® is a Type I Portland cement mix blended with pozzolans, aggregate, and proprietary admixtures to be used for building back deteriorated substrates to original dimensions and prevent infiltration and exfiltration of storm water runoff and shall have the following minimum requirements:</p> <p>A. Compressive Strength: ASTM C109 > 9000 psi at 28 days</p> <p>B. Tensile Strength: ASTM C496 > 800 psi</p> <p>C. Flexural Strength: ASTM C293 > 1200 psi</p> <p>D. Shrinkage at 90% R.H.: ASTM C596 0.0%</p> <p>E. Bond Strength: ASTM C882 > 2000 psi</p> <p>F. Freeze/Thaw Resistance: ASTM C666 After 300 cycles no visible damage</p> <p>G. Wet Unit Weight: 134 ± 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 0.57 ft³ per bag</p>	<p>All foreign material shall be removed from the substrate 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. Fill any large voids with quick setting patching material.</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: low flow conditions - four (4) hours; moderate to heavy flow conditions - six (6) 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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