



***STRONG-PLUG[®] SPECIFICATIONS:
for SEALING ACTIVE WATER INFILTRATION***

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

1.0 GENERAL

The work consists of applying a quick-setting cementitious material, either as a dry powder or as a thick paste to eliminate water infiltration prior to spraying Strong-Seal[®] cementitious liner materials. The applicator shall furnish all labor and materials using application procedures in accordance with the manufacturer's recommendations and per the following specifications.

2.0 MATERIALS

2.1 INFILTRATION CONTROL MATERIAL (Strong-Seal[®] Strong-Plug[®]):

Strong-Plug[®], a rapid setting cementitious product specifically formulated for leak control, shall be used to stop minor water infiltration and shall be applied according to manufacturers' recommendations and shall have the following minimum requirements:

Strong-Seal[®] Strong-Plug[®] Minimum Requirements		
Compressive Strength	ASTM C109	>1000 psi, 1hr. >2500 psi, 24 hrs.
Sulfate Resistance	ASTM C267	No weight loss after 15 cycles @ 2000 ppm
Freeze/Thaw	ASTM C666 "Method A"	100 cycles
Pull Out Strength	ASTM C234	14,000 lbs.
Set Time		<1.0 minute

2.2 WATER:

For wet application water shall be clean and potable. Questionable water shall be tested by a laboratory per ASTM C-94 procedure. Potable water need not be tested.

2.3 OTHER MATERIALS:

No other material shall be used with Strong-Seal® Strong-Plug® without prior approval or recommendation from Strong-Seal® Systems.

3.0 APPLICATION

3.1 PREPARATION:

All foreign material shall be removed from the area around the leak to be stopped using a high-pressure water spray (minimum 3000 psi). Unusual conditions such as heavy grease build-up or residues of industrial or processing wastes may require hydro-blasting or chemical cleaning. Loose and protruding brick, mortar, and concrete shall be removed using a masons hammer and chisel and/or scraper.

3.2 PLACEMENT:

Strong-Plug® is applied dry or as a very thick paste by hand or trowel. Material is held in place, allowing the infiltrating liquid to set the mix. 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 material Strong-Seal® QSR prior to the application of the liner.

4.0 CURING

Strong-Plug® set time is less than one minute. Patching material such as Strong-Seal® QSR or Strong-Seal® cementitious liner material can be applied over Strong-Plug® immediately after leaks are stopped.

5.0 WEATHER

No application shall be made if ambient temperature is below 40 degrees Fahrenheit. No application shall be made to frozen surfaces or if freezing is expected to occur within the substrate within 24 hours after application.

6.0 LIMITED WARRANTY

The Strong Company, Inc. warrants that this product was produced in conformity with its standard specification or formulations within recognized tolerances, free of adulteration or contamination, and that the product will perform in accordance with representations in Strong-Seal® Systems literature and Technical Data Sheets when properly applied in strict conformance with the printed instructions on container and prescribed in technical data instructions and when applied to a properly prepared surface.

The sole remedy of the purchaser shall be replacement of the product or refund of the purchase price of the product if any defect in material or variance in the product beyond recognized tolerances in the specifications are found to exist.

No other remedy including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss shall be available to the purchaser.

DISCLAIMER

THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPHS SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

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