

The Strong Company, Inc.

QSR

(Quick Set Repair)

INTENT: To provide a material specifically designed as a fast setting, corrosion resistant, reinforced cementitious patching material for filling voids and repairing of inverts.

Strong-Seal® QSR is a hand mixed and applied quick-setting, corrosion resistant cementitious material to fill voids and repair inverts prior to spraying Strong-Seal® materials. Strong-Seal® QSR shall have the following minimum requirements:

- A. Compressive strength
ASTM C109 > 1200 psi at 1 hr.
> 3000 psi at 24 hrs.
- B. Bond
ASTM C882 > 1600 psi
- C. Shrinkage @ 90% R.H.
ASTM C490 0%
- D. Placement Time
5 to 10 minutes
- E. Set Time
15 to 30 minutes

PACKAGING / YIELD

40 lb pail
Yield 0.39 ft³ per pail

MIX WATER (APPROX.)

1 part water to 3 parts QSR

DENSITY WET

105 ± 5 lbs. ft³

The area to be repaired must be free of all debris and free water. All loose brick, mortar, and concrete must be removed using a mason's hammer and chisel if necessary. The surface being repaired must be damp.

Strong-Seal® QSR is hand mixed in quantities no greater than the amount that can be placed in ten (10) minutes. Add one (1) part water with three (3) parts of QSR or add water until desired consistency is obtained. Mixing shall be done in a round bottom mixing bowl or pail using gloved hands, a wooden spoon, or a trowel for mixing. The homogeneous mix is of a dough-like consistency and shall be placed by hand or trowel, applying pressure and holding in position until material remains in place.

Invert repair shall be performed on all inverts with visible damage or where infiltration is present or when vacuum testing is specified. Block flow through the manhole, and thoroughly clean the invert. Strong-Seal® QSR shall be applied to the invert in an expeditious manner, and material shall be troweled uniformly at a minimum thickness of ½" at the extending out onto the bench of the manhole to sufficiently tie into the structural monolithic liner to be spray applied. The finished invert surfaces shall be smooth and free of ridges. The flow may be reestablished in the manhole within 30 minutes after placement of the material.

CURING

Voids filled with QSR shall be allowed a minimum one (1) hour cure time before application of Strong-Seal® liner and SHALL NOT be finished to a smooth surface. Inverts and other areas not being covered with Strong-Seal® liner material shall be troweled to a smooth surface and blended into surrounding material.

WEATHER

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.

PRODUCT TESTING

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.

Strong-Seal®
SYSTEMS

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