



QM-1s RESTORE™

QM-1s RESTORE™ TECHNICAL DATA SHEET

Rev. 04-2018



**REPAIR
MATERIALS**

Typical Performance Characteristics

- Compressive Strength 28 Day (ASTM C39)
>9,000 psi
- Flexural Strength (ASTM C293)
>1,000 psi
- Bond Strength (ASTM C882)
>1,500 psi
- Freeze-Thaw (ASTM C666)
No visible damage after 300 cycles
- Permeability (ASTM C1202)
350 Coulombs
- Density
132 +/- 5 PCF
- Shrinkage (ASTM C596)
0% @ 28 days

RECOMMENDED FOR

Vertical and overhead repairs to concrete or masonry sewer manholes, wetwells, metal pipes, water treatment facilities, tunnels, navigation locks, and dams.

FEATURES AND BENEFITS

- Quality controlled, one-component blend for uniform results
- High early and ultimate compressive, flexural and bond strengths
- Resistant to sulfate attack
- Low permeability

PORTLAND-BASED STRUCTURAL LINER MORTAR

DESCRIPTION

QM-1s Restore™ is a Portland cement based, single component, high strength, fiber reinforced, shrinkage compensated cement mortar enhanced with a monocrystalline quartz aggregate. QM-1s Restore was designed to structurally repair deteriorated metal, concrete and masonry structures. QM-1s Restore delivers a monolithic one pass vertical surface application up to three inches in thickness by low pressure spraying or centrifugally casting.

PACKAGING

QM-1s Restore is supplied in 60 lb. (27 kg.) poly-lined bags.

YIELD

One 60-lb. bag of QM-1s Restore will yield approximately .51 cu. ft. and will cover 12.2 sq. ft. at a 1/2 in. thickness.

PROCEDURE

Prepare surface to be patched by removing unsound concrete, dirt, dust, oil and other debris using high pressure (min 3500 PSI) water blasting. Then rinse with potable water to remove all remaining dirt, sand and loose debris. This will provide a clean, damp surface to facilitate bond.

Use approximately 0.7 to 0.9 gallons of potable water per 60 lb. bag of QM-1s Restore. First add water to mixer, start the mixer and add QM-1s Restore until mortar is completely mixed.

Apply QM-1s Restore by low pressure spraying on vertical or overhead surfaces to a monolithic thickness of 1/2 to 3 inches in one pass, trowel to smooth surface.

CURING

Cure in accordance with current ACI recommendations. Use a two coat application of a manufacturer approved water based curing compound.

WARRANTY

Quadex™ warrants its products to be free of defects in material and workmanship. Within one year from purchase, if any Quadex product is proven defective, Quadex will replace said product or refund its purchase price, at Quadex's sole discretion. Quadex's obligation shall be limited solely to such replacement or refund. There are no other warranties by Quadex, expressed or implied. There is no warranty if Quadex products are used contrary to Quadex's written directions.

PRECAUTIONS

Avoid eye contact or prolonged contact with skin. Wash thoroughly after use. Persons using QM-1s Restore™ should wear necessary eye protection, dust mask and rubber gloves. Read all product labels and technical literature.