



**QUADEX**  
SEWER REHABILITATION PRODUCTS

# QUADEX

## QM-1s RESTORE

**FACTORY BLENDED, ONE COMPONENT  
HIGH STRENGTH CEMENT BASED MORTAR**

### DESCRIPTION:

**Quadex QM-1s Restore** is a factory blended, one component, high strength cement based, polypropylene fiber reinforced, shrinkage compensated mortar enhanced with a monocrystalline quartz aggregate. It is specifically designed for placement by low pressure spraying of mortar for the repair of concrete and masonry structures. This unique formulation allows for a monolithic one-pass application up to three inches in thickness by low pressure spraying.

### RECOMMENDED FOR:

Vertical and overhead repairs to concrete or masonry sewer manholes, wetwells, pipe, 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.  
Extremely low permeability.

### TYPICAL PERFORMANCE DATA:

Compressive Strength (ASTM C109)	STRENGTH – PSI (MPa) 28 Day >9,000
Flexural Strength (ASTM C 293)	>1250
Bond Strength (ASTM C 882)	>2500
Freeze-Thaw (ASTM C666)	No visible damage after 300 cycles
Permeability (AASHTO T-277)	350 Coulombs
Density	132 +/- 5 PCF
Shrinkage (ASTM C596)	0% @ 28 days

### PACKAGING:

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

### YIELD:

One 60-lb. bag of **Quadex QM-1s Restore** will yield approximately .54 cu. ft. and will cover 12.5 sq. ft. at a 1/2 inch thickness.

### PROCEDURE:

Prepare surface to be patched by removing unsound concrete, dirt, dust, oil and other debris using high pressure (3500 PSI) water blasting. Air blast excess water with an oil free air compressor. This will provide a clean, damp surface to allow for a good bond.

Use approximately 0.9 to 1.1 gallons of potable water per 60 lb. bag of **Quadex QM-1s Restore**. First add water to mixer, start mixer to mixing and add **Quadex QM-1s Restore** until mortar is completely mixed.

Apply **Quadex 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. **Quadex** will replace any product proved to be defective when applied in accordance with manufacturer's instructions. **Quadex's** obligation shall be limited solely to such replacement. There are no other warranties by **Quadex** expressed or implied.

### PRECAUTIONS:

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