



Engineers  
Planners  
Surveyors  
Landscape Architects  
Environmental Scientists

**Corporate Headquarters**  
331 Newman Springs Road, Suite 203  
Red Bank, NJ 07701  
T: 732.383.1950  
F: 732.383.1984  
[www.maserconsulting.com](http://www.maserconsulting.com)

**SD# 2a - Quadex Cement Coating**

<input checked="" type="checkbox"/>	NO EXCEPTION TAKEN
<input type="checkbox"/>	EXCEPTION TAKEN AS NOTED
<input type="checkbox"/>	NOTE EXCEPTIONS AND CONFIRM IN WRITING
<input type="checkbox"/>	NO REPLY REQUIRED UNLESS CHECKED BELOW
<input type="checkbox"/>	REVISE AND RESUBMIT
<input type="checkbox"/>	REJECTED - SEE REMARKS

CHECKING IS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO TECHNIQUES TO CONSTRUCTION; AND FOR COORDINATION OF THE WORK OF ALL TRADES.

**COMMENTS**

Lollipops

Name: \_\_\_\_\_

Date: Sunday, April 24, 2016

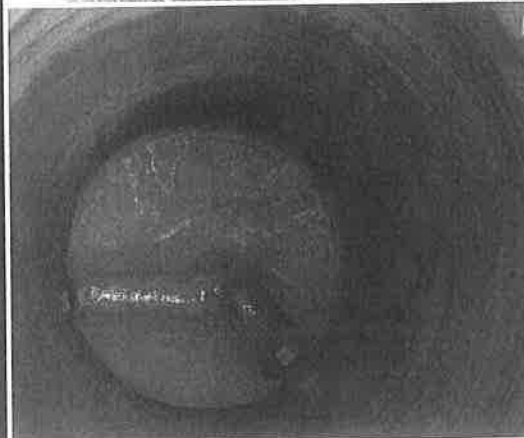


## ***CEMENT COATING SUBMITTAL FEATURING QM-1s RESTORE***

***PRODUCTS***

***SYSTEMS***

***INSTALLATION***





1. Company History
2. QM-1s Restore Technical Data Sheet
3. Installation Specification - Structure Protection  
and Rehabilitation Using Cementitious  
Lining Materials
4. Material Safety Data Sheet
  - > QM-1s Restore
5. Ancillary Water Stop Products
  - > Quad Plug (TDS and MSDS)
  - > Hyperform (TDS and MSDS)



## COMPANY HISTORY

2015



## CORPORATE PROFILE

### Quadex

#### ADDRESS

4801 Crystal Hill Road  
North Little Rock, AR 72118  
501-758-8628 Office  
501-758-3814 Fax

#### WEBSITE

[quadexonline.com](http://quadexonline.com)

#### EXPERIENCE

Over 20 years in the sewer and pipe rehabilitation business with over 75,000,000 lbs. of material installed.

#### CUSTOMERS

Washington Suburban Sanitary Commission (WSSC)  
Metropolitan Sewer District of St. Louis  
City of Austin  
City of Hot Springs  
City of Melbourne  
City of Pinellas Park  
Little Rock Wastewater Utility  
City of Memphis  
City of Boston  
City of Fort Worth  
City of Huntsville  
Miami-Dade Water & Sewer



## OUR BUSINESS

Quadex was founded in 1991 and is one of the most respected names in the protective coatings and linings sector of the wastewater rehabilitation industry. We began by manufacturing a complete line of cementitious products and continue to refine our existing products as well as develop new products that keep Quadex at the forefront of the infrastructure protection and restoration industry. Our staff and team of "Certified Applicators" are dedicated to providing only the highest quality products and equipment utilized to rehabilitate aging, damaged wastewater structures. Quadex products and equipment, as well as our network of "Certified Applicators" that use them, work to protect and restore the structural integrity of water related structures including large diameter pipe, manholes, wetwells, pump stations, headworks and other severe duty wastewater structures.

Quadex products are formulated and designed with the most advanced technology and are proven with over 20 years of successful installations. Our products offer unmatched corrosion resistance, structural and flexural strength, impermeability, application thickness and quick return-to-service workability. Our specialized lining products provide a permanent seal against corrosion, infiltration, and exfiltration, and support an installation life of 50-100 years. To ensure the performance of each product, we verify the results of our in-house studies through independent laboratory American Society for Testing and Materials (ASTM) procedures.



## *QM-1s RESTORE TECHNICAL DATA SHEET*



## QM-1s RESTORE FAST SET HIGH STRENGTH MORTAR

### Description

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

### 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
- Extremely low permeability

### Typical Performance Data

Compressive Strength 28 Day

>10,000

(ASTM C109)

Flexural Strength

>1400

(ASTM C 293)

Bond Strength

>2,500 psi (ASTM C 882)

Freeze-Thaw

No visible damage after 300 cycles

(ASTM C666)

Permeability

350 Coulombs

(AASHTO T-277)

Density

132 +/- 5 PCF

Shrinkage

0% @ 28 days

(ASTM C596)

### 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 .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 (min 3500 PSI) water blasting. Air blast to remove excess water with an oil free air source. 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 mixer to mixing 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.