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SD# 1 - Allstate Submittal No. 1 CIPP Liner Designs

<input checked="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.

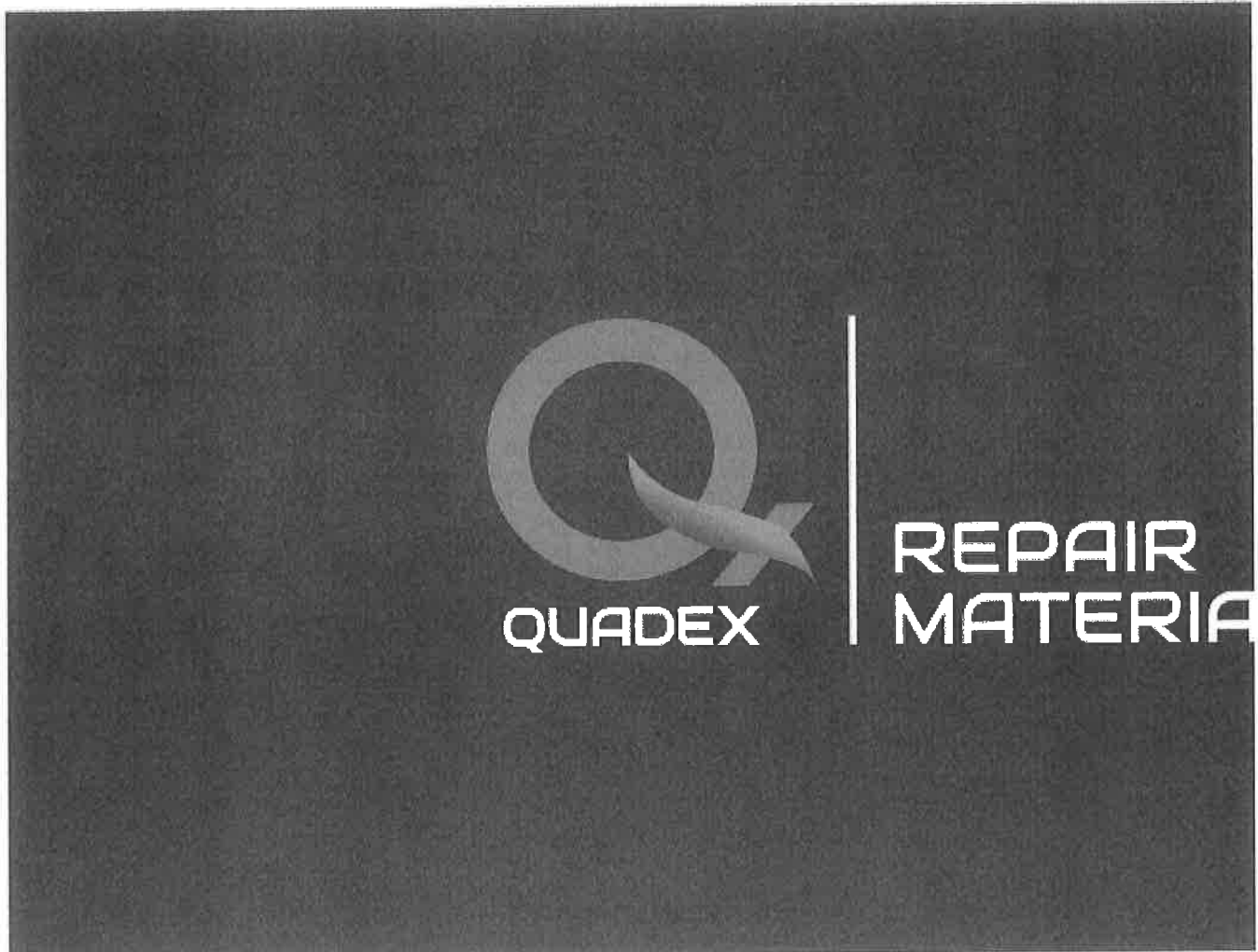
COMMENTS

Submitted to TRMUA for comment
Requires More Lollipops
Lorem

Name: _____

Date: Monday, April 25, 2016

with reh.

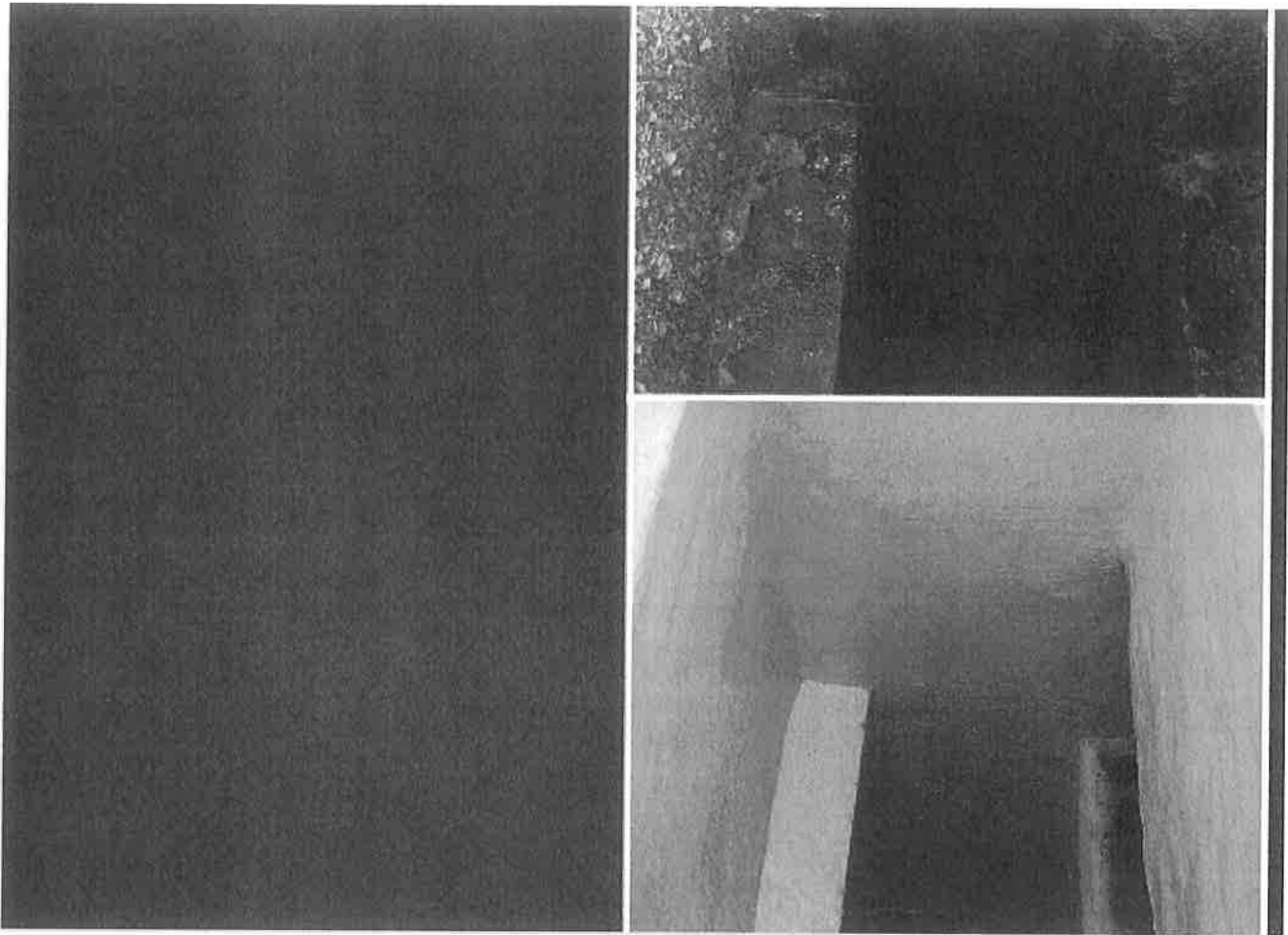


EPOXY COATING SUBI
FEATURING STRUCTU

PRODUCTS

SYSTEMS





Epoxy C

1. Company History
2. Structure Guard Technical Data Sheet
3. Specification Structure Destruction

3. Specification: Structure Restoration & Epoxy Materials Installation

4. Material Safety Data Sheet

- > Structure Guard

5. Ancillary Water Stop Products

- > Quad Plug (TDS and MSDS)

- > Hyperform (TDS and MSDS)

6. Before & After Installations Photos

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COMPANY HISTORY

2016

4801 Crystal Hill Road | North Little Rock, AR 72118 | 501.758.8628 | qua

Epoxy C**CORPORATE PROFILE****Quadex LLC****ADDRESS**

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

WEBSITE

quadexonline.com

EXPERIENCE

Over 20 years in the sewer and pipe rehat
business with over 75,000,000 lbs. of mat

CUSTOMERS

Washington Suburban Sanitary Commissi
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

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OUR BUSINESS

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Quadex LLC 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 formed with advanced technology and a history of successful installation. They provide corrosion resistance, superior impermeability, application ease, and service workability. Our products provide a permanent seal against corrosion and support an installation that ensures the performance of each structure. Quadex has conducted in-house studies through the American Society for Testing and Materials (ASTM) to ensure

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STRUCTURE GUARD TECHNICAL

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STRUCTURE GUARD CORROSION RESISTANT EPOXY PROTEC

Description

Structure Guard is a 100% solids high build epoxy coating formulated to provide long term corrosion protection and structural enhancement for manholes, pump stations, treatment plants or any wastewater infrastructure subject to high levels

Chemical Resistance

- Acetic Acid 10%
- Brine Water
- Diesel Fuel
- Gasoline

plastic or dry, hazardous, structures subject to high levels of corrosion and/or abrasion. Structure Guard sets fast for a quick return-to-service in the most aggressive and turbulent environments. It finishes smooth and slick to enhance flow and can also be used as an interior or exterior pipe lining.

Features and Benefits

- 100% Solids, No VOC's
- Spray applied at 200 mils in a single pass
- Excellent corrosion and abrasion resistance

Typical Performance Data

Color	Light Bluegreen
Finish	Very Smooth (Manning Coefficient: .009)
Flash Point	> 250°F (121°C)
Specific Gravity Resin	1.45 Hardener: 0.97
Dry Service	30°F – 250°F (121°C)
Spill/Splash	190°F (87.7°C)
Immersion Service	150°F (65.5°C)

Application Systems

- Heated Plural Airless Spray Units
- Minimum Output 5000 psi
- Product Hose: Min. - Optimum I.D. 0.375 - 0.5 inch

Cure Time (at 70°F or 21°C)

Re-coat Window	8 hours
Light Loading	6 – 12 hours
Immersion (Aqueous) Service	6 - 12 hours
Full Chemical Cure	7 days

Pot Life

- 40°F (4°C) 1 hour
- 75°F (24°C) 35 minutes
- 92°F (33°C) 20 minutes

Substrate

- Mineral Spirits
- Crude Oil
- Ethylene Glycol
- Sodium Hydroxide 50%
- Sewage (Hydrogen Sulfide)
- Fresh and non-potable water
- Ethanol

Structure Guard passes requirements.

Multiple Coats

Good coating practice typically attain finished thickness. It should be applied before the previous coat is linked, typically 8 hours @ 70°F will shorten this window. Surface should be brush blast before applying. Surface should be clean and dry surface that has not been including amine blush or surface that has been abraded by sanding or wire brushing.

The same requirements apply to adjacent coating sections. If the coating surface is not to be brush blasted, use a non-flammable solvent or sanding to create adequate surface profile.

Packaging

Structure Guard is available in 5 gallon and 55 gallon drums.

Yield

Structure Guard will yield approximately 1 gallon @ 80 mils thickness on substrate porosity and suggest application of two coats. A film thickness gauge may be used to determine thickness.

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Surface Preparation

Coating performance is largely determined by the degree of surface preparation... More is Better.

CONCRETE & MASONRY substrates must be prepared in a manner that provides a uniform, sound, clean, neutralized surface with sufficient profile suitable for the specified coating. The substrate must be free of all contaminants, such as oil, grease, rust, scale or deposits and have a surface profile equivalent to a CSP2 to CSP5 in accordance with ICRI Technical Guideline No. 03732. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning, water jetting, acid etch, hot water/steam cleaning or a combination of methods.

STEEL surfaces may require "Solvent Cleaning" (SSPC-SP 1) to remove oil, grease and other soluble contaminants. Chemical contaminants may be removed according to SSPC-SP 12/ NACE No. 5. Identification of the contaminants along with their concentrations may be obtained from laboratory and field

tests as described in SSP and Analysis of Soluble S coated should then be p NACE No.1 "White Blast SSPC-SP 10/NACE No. 2 other service. In certain sit be to use high (>5,000 psi water cleaning or water resulting anchor profile sh the coating thickness spec

Warranty

Quadex warrants its product and workmanship. Within one year of installation, if the product is proven defective, Quadex will refund its purchase price, and its obligation shall be limited to replacement of the product. There are no other warranties. There is no warranty if Quadex's written directions

Physical Properties

Gel Time, 150 grams at 25°C	ASTMD2471	18
Tensile Strength	ASTM D638	7,
Elongation	ASTM D638	1.
Flexural Strength	ASTM D790	44

Flexural Strength	ASTM D790	11
Flexural Modulus	ASTM D790	53
Compressive Strength	ASTM D695	13
Shore D Hardness	ASTM D2240	85
Taber Abrasion, CS 17 Wheel	ASTM D4060	<
Adhesion to Concrete	ASTM D4541	>
Adhesion to Blasted Steel	ASTM D4541	>
Water Vapor Transmission	ASTM D1651	3.
Water Absorption	ASTM D570	0.
Volatile Organic Content	ASTM D2580	N.

Physical properties were evaluated on compounds cured for 5 days at 25°C / 50% relative hu

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**SPECIFICATION: STRUCTURE RES
PROTECTION EPOXY MATERIALS**

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