

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT CONTRACT CHANGE ORDER Page 1 of 2		Date:	July 26, 2016
To (Contractor): Marrillia Design & Construction 259 West Short Street Suite 325 Lexington, KY 40507		Project:	Senior Citizen Center Construction
		Location:	Lexington
		Contract No.	227-2014
		Original Contract Amt.	\$8,882,900.00
		Cumulative Amount of Previous Change Orders	\$1,549,475.37
		Percent Change - Previous Change Orders	17.44%
		Total Contract Amount Prior to this Change Order	\$10,432,375.37
		Change Order No.	54
You are hereby requested to comply with the following changes from the contract plans and specification;			
Current Change Order			
Item No.	Description of changes-quantities, unit prices, change in completion date, etc.	Decrease in contract price	Increase in contract price
1	Provide & install ceramic tile in the shower per PR 089		\$4,598.00
	Total decrease	\$0.00	
	Total increase		\$4,598.00
	Net Amount of this Change Order	\$4,598.00	
	New Contract Amount Including this Change Order	\$10,436,973.37	
	Percent Change - This Change Order		0.05%
	Percent Change - All Change Orders		17.50%
The time provided for the completion in the contract and all provisions of the contract will apply hereto.			
Recommended by	<i>Joyce Thomas</i>	(Project Manager)	Date 7/26/16
Accepted by	<i>Jack Marshall</i>	(Contractor)	Date 7/27/16
Approved by	<i>[Signature]</i>	(Director)	Date 7-27-16
Approved by	<i>[Signature] (for Comm Recd)</i>	(Commissioner)	Date 7-27-16
Approved by	<i>Dale Hamrick</i>	(Mayor or CAO)	Date 7-28-16

JUSTIFICATION FOR CHANGE

PROJECT: Senior Citizen Center Construction

CONTRACT NO. 227-2014

CHANGE ORDER NO. 54

1. Necessity for change: The shower enclosure was omitted from the plans due to a printing error.
2. Is proposed change an alternate bid? ___ Yes X No
3. Will proposed change alter the physical size of the project? ___ Yes X No
If "Yes", explain.
4. Effect of this change on other prime contractors: N/A
5. Has consent of surety been obtained? ___ Yes X Not Necessary
6. Will this change affect expiration or extent of insurance coverage? ___ Yes X No
If "Yes", will the policies be extended? ___ Yes ___ No
7. Effect on operation and maintenance costs:
8. Effect on contract completion date: 0 working days

Sally Heath
Mayor

7-28-16
Date



Alternates
 LFUCG Replacement Senior Citizen Center
 Lexington, KY

7/20/2016
 4:35 PM

Pending Owner Approval

PR-106 Furnish and Install Ceramic Tile (Not Stonhard Product) in the Shower per Proposal Request No. 89

Furnish and Install Ceramic Tile (Not Stonhard Product) in the Shower per Proposal Request No. 89
 Furnish and Install Ceramic Tile in the Shower per Proposal Request No. 89 - Martina Brothers

Quantity	Units	Hr.	Rate	Labor	UP	Materials (Sales Tax Added Below)	Subcontractor	Total
	1	ls				3,957.00	3,957	
				0		0	3,957	3,957

Cost of In-Place Construction (Labor, Materials and Equipment) =	3,957
Marrillia Design and Construction Overhead Percentage =	10.0%
Overhead - Marrillia Design and Construction =	396
Marrillia Design and Construction Profit Percentage =	5.0%
Profit - Marrillia Design and Construction =	198
General Liability Insurance (Construction) =	6
Builder's Risk Insurance =	6
Performance and Payment Bond (Rate of \$9.40 per \$1000 of Cost for \$0 - \$2,500,000) =	N/A
Performance and Payment Bond (Rate of \$8.15 per \$1000 of Cost for \$2,500,000 - \$5,000,000) =	N/A
Performance and Payment Bond (Rate of \$7.20 per \$1000 of Cost for \$5,000,000 and up) =	33
KY Surcharge on Project Bonds (1.8% of Bond Cost) =	1
Local Municipality Tax on Project Bonds (5% of Bond Cost) =	2
Total Construction Cost =	4,598



architecture + interiors

Proposal Request Transmittal

EOP Architects | 201 W Short St Suite 700 Lexington KY 40507 United States

PROJECT	LFUCG Senior Citizens' Center 201333	DATE SENT	6/22/2016
SUBJECT	Shower Floor and Walls	PROPOSAL REQUEST ID	PR-089
TYPE	Proposal Request	TRANSMITTAL ID	01003
PURPOSE	For Review and Response	VIA	Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Harding Dowell	EOP Architects	hdowell@eopa.com	(859) 231-7538

TO

NAME	COMPANY	EMAIL	PHONE
Travis Harris	Marrillia Design and Construction	tharris@marrillia.com	

REMARKS:

Created by: Harding Dowell

Description:

Please provide pricing to finish out the shower area as described below.
Please provide unit prices for materials, labor, and equipment.

The shower floor shall be a 3-component epoxy resin mortar base with quartz broadcast aggregate and 2-component clear epoxy sealer. Basis of Design is Stonhard Stonshield QBT.

- Components of the system are: Stonshield QBT base, Stonshield Aggregate, and Stonkote CE4 sealer.
- The installation shall be performed in accordance with the manufacturer's requirements. See enclosed product data for more

Proposal Request Transmittal

DATE: 6/22/2016
ID: 01003

information.

- Surfaces shall be clean and prepped as directed prior to installation, using Stonblend Primer.
- All products shall be installed to provide an integral cove base, 4" high, as seen in the enclosed detail sketch.
- Floor surfaces shall be sloped to drain at a minimum of 1/8" per 12". Threshold at entry to shower shall not exceed 1/2" above the adjacent sheet vinyl flooring. Seal floor coating at floor drain. See enclosed sketch for more information.
- Color shall be manufacturer's standard Ash.
- To provide waterproof seal, use Stonhard Stonproof ME7 membrane, installed per manufacturer's requirements.

The shower walls and ceiling shall be coated in 2-component waterborne epoxy finish. Basis of Design are Benjamin Moore Corotech V440 or PPG Aquapon WB.

- Install per manufacturer's requirements. See enclosed product data for more information.
- Surfaces shall be clean and prepped as directed prior to installation, using manufacturer approved primer as required. Test for adhesion to painted surfaces.
- Integrate wall finish with integral cove base as shown in the attached detail sketch
- Color shall be manufacturer's standard light gray.

Shower accessories and fixtures shall be removed prior to installation of surface coatings. Penetrations in shower walls shall be sealed to provide a continuous waterproof surface.

Outside the shower, apply adhesive abrasive strips, approximately 2" wide, every 6" OC, 42" wide, for the first 36" from the entrance to the shower. Color shall be manufacturer's standard gray or black.

Thanks,

Harding

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NUMBER	SCALE	SIZE	NOTES
1	6/22/2016	stonshield-qbt-product-data.pdf				
1	6/22/2016	Corotech-V440.pdf				
1	6/22/2016	stonhard-slope-cove.pdf				

Proposal Request Transmittal

DATE: 6/22/2016
ID: 01003

QTY	DATED	TITLE	NUMBER	SCALE	SIZE	NOTES
1	6/22/2016	aquapon-wb.pdf				
1	6/22/2016	standard-primer-product-data.pdf				
1	6/22/2016	stonproof-me7-product-data.pdf				

COPIES:

Brian Gravitt	(Marrillia Design and Construction)
Jim Martin	(Marrillia Design and Construction)
Josh Marrillia	(Marrillia Design and Construction)
Rob Price	(Marrillia Design and Construction)
Jessica Walker	(LFUCG)
Joyce Thomas	(LFUCG)
Martin Woodford	(LFUCG)



HPC/Industrial Maintenance

AQUAPON® WB Water Base Epoxy

GENERAL DESCRIPTION

AQUAPON® WB is a water-borne epoxy interior/exterior coating system for use in commercial, institutional or industrial environments or where a tough, impact, abrasion, mar and stain resistant coating is required. Suitable for use on properly prepared and primed steel, galvanized metal, aluminum, copper, plaster, concrete, masonry, and wood surfaces. Also recommended as a floor coating. **For Professional Use Only; Not Intended for Household Use.**

RECOMMENDED SUBSTRATES

Aluminum	Ferrous Metal	Wood
Concrete	Galvanized Steel	
Drywall	Plaster	

APPLICATION INFORMATION

Application Equipment: Changes in application equipment, pressures and/or tip sizes may be required depending on ambient temperatures and application conditions.

Conventional Spray: Fluid Nozzle: DeVilbiss MBC gun, with 704 or 777 air cap with "F" tip and needle, or comparable equipment. Atomization Pressure: 55-70 psi. Fluid Pressure: Can not specify dependent on numerous factors.

Airless Spray: Pressure: 1500 psi, tip 0.015" - 0.017" Spray equipment must be handled with due care and in accordance with manufacturer's recommendations. High pressure injection of coatings into the skin by airless equipment may cause serious injury.

Brush: High quality polyester/nylon brush
Roller: High quality roller cover

Thinning: Under normal conditions, thinning is not required. In some cases, such as extremely low humidity or high temperatures, water may be added up to 6 oz. per gallon to improve open time or flow and leveling.

Permissible temperatures during application:

Material:	50 to 90°F	10 to 32°C
Ambient:	50 to 100°F	10 to 38°C
Substrate:	50 to 130°F	10 to 54°C

FEATURES AND BENEFITS

Water-borne formula meets all national VOC regulations.
Chemical and solvent resistance equal to solvent epoxy coatings.
Superior abrasion resistance.
Suitable for both floors and vertical surfaces.
Water borne formula for low odor and reduced yellowing.

DIRECTIONS FOR USE

Tint Component A only. Thoroughly mix the contents of each component before combining. Under mechanical agitation, add the contents of Comp. B to the correct Comp. A. The mixed material will increase in viscosity. Agitate until the combined material is uniform. No digestion time is required. Be sure to mix the correct A and B components.

PRODUCT DATA

PRODUCT TYPE: Water Borne Epoxy Two Component

BASE/COLOR:

98-1	Porcelain White	98-4	ASA #49 Gray
98-10	Safety Red	98-9	Tile Red
98-11	Safety Blue	98-51	Pastel Base
98-13	Safety Yellow	98-56	Midtone Base
98-2	Black	98-98	Gloss Comp B
98-3	Light Gray	98-100	Semi-Gloss Comp. B
		98-101	Gloss Comp. B (low VOC)

	GLOSS*	SEMI-GLOSS**
Gloss Level: (60° Gloss Meter)	70+	40-60
VOC:	2.26 lbs./gal. (271 g/L)* 2.08 lbs./gal. (250 g/L)***	2.02 lbs./gal. (242 g/L)
Coverage:	202 to 303 sq. ft./gal. (19 to 28 sq. m/3.78L)	227 to 341 sq. ft./gal. (21 to 32 sq. m/3.78L)
Volume Solids:	37.8 +/- 2%	42.5 +/- 2%
Weight Solids:	51.8% +/- 2%	58.2% +/- 2%
Weight/Gallon:	10.5 lbs. (4.8 kg) +/- 0.3 lbs. (136 g)	11.15 lbs. (5.07 kg) +/- 0.3 lbs. (136 g)

Note: Coverage does not include loss due to varying application method, surface porosity, or mixing.

Wet Film Thickness:	5.3 mils to 7.9 mils*
Wet Microns:	135 to 201
Dry Film Thickness:	2.0 mils to 3.0 mils
Dry Microns:	51 to 76

POT LIFE:	6 hours
INDUCTION TIME:	None
MIXED RATIO:	1:1 by volume

DRYING TIME:	Dry time @77°F (25°C); 50% relative humidity.
To Touch:	1 hour
To Handle:	7 hours
To Recoat:	16 hours

Drying times listed may vary depending on temperature, humidity and air movement.

CLEANUP: Soap and Water

FLASH POINT:	98-1	94°F (34°C)
	98-98	200°F (93°C)
	98-100	200°F (93°C)

Results will vary by color, thinning and other additives.
*Product data calculated on product 98-1 mixed with 98-98.
**Product data calculated on 98-1 mixed with 98-100.
***Product data calculated on 98-1 mixed with 98-101.

GENERAL SURFACE PREPARATION

The surface to be coated must be dimensionally stable, dry, clean, and free of oil, grease, release agents, curing compounds, and other foreign materials. Prime bare areas with a suitable primer. **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. In Canada contact a regional Health Canada office. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

PREVIOUSLY PAINTED SURFACES: Old coatings should be tested for adhesion of the existing system and lifting by the proposed topcoat.

FERROUS METAL: Stabilizers must be removed prior to painting. Weathering, solvent washing, chemical cleaning, or brush blasting may be appropriate, depending upon the nature of the stabilizer and the time available.

GALVANIZED STEEL: Caution must be used when selecting coatings for use on galvanized metal surfaces. These substrates may have a factory-applied stabilizer, which is used to prevent white rusting during storage and shipping. Such Stabilizers must be removed by either brush blasting or chemical treatment. The surface must be exterior weathered for 6 months and then solvent cleaned per SSPC-SP1 prior to painting. When weathering is not possible, solvent clean surface per SSPC-SP1 and then blast clean per SSPC-SP7, brush off blast or thoroughly abrade the surface by appropriate means.

CONCRETE FLOORS: Unpainted – Test freshly poured concrete by ASTM-D4263 before coating. Remove all contaminants by sweeping, scraping, or cleaning with solvent or detergents. In severely contaminated areas, abrasive blasting may be necessary. Previously Painted – Existing polyamide/epoxy coatings in good condition can be coated. Previous coatings must be thoroughly cleaned and sanded to remove gloss. Remove wax and grease with solvent and detergent. In severely contaminated areas abrasive blasting may be necessary.

CONCRETE, STUCCO, PLASTER, MASONRY other than Concrete Masonry Units: Allow all concrete, mortar, plaster, etc. to cure for thirty (30) days under normal drying conditions. Remove all dirt, dust, grime, loose mortar and all other forms of contamination. Concrete which has been treated with curing compounds or hardeners, should be thoroughly abraded.

MASONRY, PLASTER, DRYWALL, CEMENTBOARD, CONCRETE BLOCK: Remove all surface contaminants. Fill cracks, voids, and surface imperfections. Use PITT-GLAZE® Acrylic Latex Block Filler, 16-90, for normal applications. For non-immersion service involving moisture or high humidity, 97-685/686, Epoxy Filler is recommended. HPC Systems in Detail Brochure (H13905) COATING SYSTEMS: 236-HD, 237-HD, 238-HD, 239-HD. AQUAPON® WB Epoxy Coatings may be substituted for AQUAPON Polyamide-Epoxy Coatings, 97 Line, in other AQUAPON Coating Systems when the end use does not involve a critical exposure.

WOOD: Previously painted wood should be sanded to dull the gloss of previous paint and to remove any loose paint. Wood should be clean and dry before the first application of AQUAPON® WB Epoxy Coating.

LIMITATIONS OF USE**For Professional Use Only; Not Intended for Household Use.**

Apply only when air, surface and product temperatures are above 50°F (10°C) and when surface temperatures are at least 5°F (3°C) above the dew point. Curing is retarded below 60°F (15°C). For exterior applications, do not paint late in the day when dew or condensation are likely to form or if rain is anticipated. Gradual loss of gloss and chalking is typical and characteristic of epoxies on exterior exposures. Film integrity is not adversely affected. Do not apply over oil or alkyd coatings less than six months old. Not recommended for below grade applications on concrete or masonry or over latex floor deck enamels. Do not apply directly over POLYCLUTCH® Wash Primer, 97-687/97-688. Epoxy coatings are not suitable for large expanses of exterior wood. **PROTECT FROM FREEZING.** Explosion proof equipment must be used when coating with these materials in confined areas. Keep containers closed and away from heat, sparks, and flames when not in use.

PACKAGING

1-Gallon (3.78L)

5-Gallon (18.9L)

All products not available in all sizes. All containers are not full-filled.

RECOMMENDED PRIMERS

Concrete Block	16-90, 97-685/686, 6-15
Concrete, Smooth Masonry	4-603, 98-1
Drywall	6-2, 17-921, Self Priming
Ferrous Metal	98-46
Galvanized Steel	98-46

TINTING AND BASE INFORMATION

Use PITTSBURGH® Paints Custom Colorants and refer to the VOICE OF COLOR® formula book for tinting instructions. Do not use G or Z colorants. Tint Component A only.

SAFETY

Proper safety procedures should be followed at all times while handling this product. **USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.** Read all label and Material Safety Data Sheet for important health/safety information prior to use. MSDS are available through our website www.ppghpc.com or by calling 1-800-441-9695.

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F19 2/2011
(Supersedes 8/2010)



WATERBORNE AMINE EPOXY V440

Features

- Waterborne Amine Epoxy
- Soap & Water Clean-Up
- Scrub Resistance
- Excellent Abrasion Scratch, and Impact Resistance
- Suitable For Use In USDA Inspected Facilities
- Resistant to Most Mild Chemicals

Recommended For

Properly Prepared and/or Primed Steel, Iron, Concrete, Non-Ferrous Metals, Wood & Drywall. Corotech® V440 Waterborne Amine Epoxy is designed for use in food and beverage processing, chemical processing, transportation, warehouses, industrial refurbishment, healthcare, schools, large commercial structures, industrial and commercial flooring, and other areas where a performance epoxy is needed without the odor concerns that accompany conventional solvent thinned epoxies. This product will amber and chalk if exposed to ultraviolet light.

General Description

Corotech® V440 Waterborne Amine Epoxy is formulated to provide superior chemical, abrasion and impact resistance when compared to most conventional waterborne epoxies. The highly cross-linked film provides years of service in industrial and commercial applications and is particularly suited for use on concrete floors subjected to severe service conditions. The waterborne formulation produces lower odor than solvent based epoxies, so this product may be applied in occupied areas, and is more user friendly than solvent based polyamide epoxies. Additionally, this product may be applied to most generic coating types without the fear of lifting or wrinkling.

This is a two component product that requires 3 parts of the proper "A" or Base Component (underfilled gallon) mixed with 1 part of the proper "B" or Converter Component (quart). Do Not Mix Partial Kits.

Limitations

- Do not apply if material, substrate or ambient temperature is below 45°F (7.2°C).
- Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

Product Information

Colors — Standard:		Technical Data ⁰		White
Clear, White, Terra Cotta, Sandstone, Silver Gray, Battleship Gray Do not tint Clear V440.00.		Generic Type		Amine Adduct Epoxy
		Pigment Type		Titanium Dioxide
		Volume Solids (mixed as recommended)		42 ± 2.0%
— Tint Bases:		Coverage per Gallon at		
V440.85 Pastel Base		Recommended Film Thickness		350 - 450 Sq. Ft.
V440.86 Tint Base		Recommended — Wet		3.5 - 4.5 mils
V440.87 Deep Base		Film Thickness — Dry		1.5 - 1.9 mils
V440.88 Clear Base		Coverage is affected by surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.		
TINT ONLY THE "A" COMPONENT		Dry Time @ 77°F		
Use 888 Universal Colorants Only		— To Touch		2 Hours
NOTE: Do Not Tint with 896 Series Industrial Waterborne colorants.		— To Recoat		8 Hours
		— Full Cure		3 - 5 Days
— Special Colors:		*If top coat is not applied within 72 hours abrade the surface to ensure proper inter-coat adhesion. Maximum abrasion and chemical resistance are achieved at full cure; care should be taken to prevent damage to the coating during the curing process. High humidity and cool temperatures will result in longer dry, recoat and cure times.		
Contact your dealer.		Dries By		Chemical Cure
Certification:		Dry Heat Resistance		250° F
The products supported by this data sheet contain a maximum of 250 gram per liter VOC / VOS (2.09 lbs/gal.) excluding water & exempt solvents.		Viscosity @ 77°F (mixed as recommended)		80 - 85 KU
This product is compliant under the Ozone Transport Commission regulations as an Industrial Maintenance coating.		Flash Point		200° F. (TT-P-141, Method 4293)
This product qualifies for LEED (Leadership in Energy and Environmental Design) projects when used over metal substrates.		Gloss		85+ Units @ 60°
Suitable for use in USDA Inspected Facilities		Surface Temperature — Min.		45°F
		at application — Max.		90°F
		Surface must be dry and at least 5° above the dew point		
		Thin With		Do Not Thin
		Clean Up Thinner		Warm Water
		Mixed Ratio (by volume)		3 : 1
		Induction time @ 77°F (25° C)		30 Minutes
		Pot Life @ 77°F (25° C)		3 Hours
		Weight Per Gallon (mixed as recommended)		11.1 lbs
		Storage — Min.		45°F
		Temperature — Max.		95°F
Technical Assistance:		Volatile Organic Compounds (VOC)		
Available through your local authorized independent dealer. For the location of the dealer nearest you, call 1-800-225-5554 or visit www.corotechcoatings.com		206 Grams / Liter* 1.72 LBS / Gallon*		
		* Catalyzed		

⁰ Reported values are for White. Contact dealer for values of other bases or colors

Waterborne Amine Epoxy V440

Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mill scale, form release agents, curing compounds, loose and flaking paint and other surface contaminants

NEW SURFACES: Concrete and Masonry: All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Acid etch or abrasive blast all slick, glazed concrete or concrete with laitance. For acid etching, follow all manufacturer's directions and safety instructions. Rinse thoroughly and allow to dry. Prime concrete with one coat of V155 100% Solid Epoxy Pre-Primer or V156 Moisture Tolerant Fast Set Epoxy Sealer. Bare concrete may require two coats of V440 to obtain desired finish.

STEEL AND FERROUS METALS: The use of Corotech® V110 Acrylic Metal Primer or V175 Waterborne Bonding Primer is recommended. All primers provide maximum performance over near white metal blasted surfaces (SSPCSP 10). There are however, situations and cost considerations that may prevent this type of surface preparation from being done. Corotech® Industrial Coatings have been designed to provide protection over less than ideal surfaces. The recommended standard is a commercial blast (SSPC-SP 6). The steel profile after the blast should be 1-2 mils and be jagged in nature. Surfaces must be free of grit dust. The coating should be applied as soon as possible after the blast in order to prevent flash rusting or surface contamination. Hand tool cleaning (SSPC-SP 2) or power tool cleaning (SSPC-SP 3) can be used if blasting is not possible. In areas where adequate surface preparation is not possible the use of V155 100% Solid Epoxy Pre-Primer is recommended. In highly corrosive areas where additional rust inhibitive qualities are required, prime with one coat of V170 Organic Zinc-Rich Primer prior to applying epoxy coatings.

GALVANIZED AND NON-FERROUS METALS: Solvent clean all surfaces [SSPC-SP-1]. Apply one coat of Corotech® V110 Acrylic Metal Primer or V175 Waterborne Bonding Primer.

DRYWALL: Insure drywall is dust & chalk free. Prime with an acrylic drywall primer.

PREVIOUSLY PAINTED SURFACES: Can be applied over most existing industrial finishes in good condition.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application

Mixing Instructions:

This is a two component kit and is pre-proportioned for error free mixing. DO NOT vary from these instructions. Mix "A" & "B" separately

- Carefully empty the entire contents of V 440-90 activator into the can of V440-Part A component resin, scrape the sides of the pail of Part B to make sure all liquid has been added. Part A container is oversized to completely accept entire contents of Part B material.
- Using a jiffy mixer at low speed, blend this mixture for three to five minutes until completely blended. Keep the mixing blade turning at a slow speed to minimize whipping air into material. Scrape sides of pail during the mixing process.
- Care must be taken to assure both components are completely mixed in order to avoid partially cured spots in the coating.
- Allow to induct for 30 minutes.

It is extremely important to remember that Epoxy Coatings have a limited pot life; therefore, it is wise to make sure sufficient manpower and correct application tools are in order prior to starting the mixing sequence. Estimated pot life is: 2 to 4 hours @ 77° F (25°C)

Application:

Airless Spray (Preferred Method): Tip range between 015 and 019. Total fluid output pressure at tip should not be less than 2100 psi.

Air Spray (Pressure Pot): DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.

Brush: Synthetic Bristle only. **Roller:** Industrial Cover with Phenolic core ¼" - ½" nap.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with warm water. No reduction is necessary.

DRYING TIME: Dries tack free in 2 hours. Can be recoated in 8 hours. This dry time is based on 70°F and 50% relative humidity. Lower temperature and/or higher humidity will result in longer dry times.

NOTE: If more than 48 hours (@77°F) elapses between coats, sand the film to provide sufficient profile.

Additional Notes: All high gloss surfaces can be slippery. Where non-skid properties are required a non-skid additive should be used. All epoxy coatings will chalk and fade if applied on exterior surfaces subjected to direct sunlight. All epoxies tend to yellow. Where color and gloss retention is important top-coating will be necessary. Will stain with prolonged exposure to some solvents and chemicals or in kennels if exposed to animal waste. This staining will not affect the durability or protective qualities of the coating. Will not cure at surface temperatures below 50°F.

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/8" Mandrel
Sag Resistance	Passes 8+ mils
Steam Resistance	Yes
Dry Heat Resistance	250° F
Wet Heat Resistance	180° F
Adhesion (ASTM D3359)	Pass 5B
Pencil Hardness (1 week cure)	HB
Direct Impact / Reverse Impact	160 in/lbs
Accelerated Weathering (ASTM G53)	500 hours, no change
Abrasion Resistance (ASTM D4060) CS-10 Wheel, 1000g load	90 mg loss after 1000 cycles
Humidity (ASTM D4585) (2 Coats over V150 - 1000 Hours)	Face Corrosion: None Face Blistering: None Rating: 10, Rust: 0.00%
Salt Spray (ASTM B117) (2 Coats over V110 (1000 Hours)	Face Corrosion: None Face Blistering: None Rating: 9, Rust: 0.05%

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Excellent
Waste Water	Excellent
Acids	Good-Excellent
Alkalis	Good
Solvents	Excellent
Fuel	Good
Acidic Salt Solutions	Excellent
Alkaline Salt Solutions	Good
Neutral Salt Solutions	Excellent

SYSTEMS RECOMMENDATIONS	
PRIMERS	
Ferrous Metal (Blasted)	V110 Line, V150 Line, V155-00 or V180 Line
Ferrous Metal (Marginally Prepared)	V155-00 or V160 Line
Non-Ferrous Metal	V110 Line or V175-00
Concrete	Use Direct or use V110 Line, V114-01, or V155-00, V160 Line, V163-01, or V400-00 Clear
Drywall	Use a good quality acrylic drywall primer
Aged coatings	Use Direct or use V110 Line
COMPATIBLE INTERMEDIATES	
V160 Line, V163-01	
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.	

Waterborne Amine Epoxy V440

Clean Up

Clean up with warm water.

Environmental Health & Safety Information

Danger!

Causes serious eye irritation

May cause cancer

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.

Response: If exposed or concerned, get medical attention. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

1.43% of the mixture consists of ingredient(s) of unknown toxicity.

Storage: Store locked up.

Disposal: Dispose of contents/container to an approved waste disposal plant.

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

CAUTION: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, a small amount of clean sand may be added. Stir often during application.

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

**KEEP OUT OF REACH OF CHILDREN
KEEP FROM FREEZING
FOR PROFESSIONAL USE ONLY**

**Refer to Safety Data Sheet for
additional health and safety information.**

STANDARD PRIMER

PRODUCT DESCRIPTION

Standard Primer is a two-component, epoxy based priming system. It is applied to a properly prepared substrate prior to the application of the appropriate Stonhard overlayment. The use of Standard Primer ensures a secure bond between the substrate and the overlayment, reduces absorption of the overlayment's liquids (epoxy resin/curing agent) and makes the application of the overlayment easier.

USES, APPLICATIONS

Standard Primer is designed for use with Stonclad GS, Stonshield HRI Base, Stonglaze VSM and other Stonhard flooring systems. Standard Primer should not be allowed to cure without overlayment, i.e. mortar, broadcast or subsequent primer. See the Primer Selection Guide for appropriate selections.

PACKAGING

Standard Primer is packaged in units for easy handling. Each unit consists of:

- 1 carton containing:
 - 6 foil bags of Amine
 - 6 poly bags of Resin

COVERAGE

One unit of Standard Primer will cover approximately 600 sq. ft./55.75 sq. m of relatively smooth surface. A mix of Standard Primer is made up of one foil bag of amine and one poly bag of resin. Each mix will cover approximately 100 sq. ft./9.29 sq. m. On very rough surfaces, a mix of Standard Primer may not cover a full 100 sq. ft./9.29 sq. m. The rougher the surface, the less total area a mix will cover.

STORAGE CONDITIONS

Store both components of Standard Primer at or above 60°F/16°C in a dry area. Avoid excessive heat. Do not freeze. The shelf life is 3 years in the original, unopened container.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond and system performance. The substrate must be dry and properly prepared utilizing mechanical methods. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service.

PHYSICAL CHARACTERISTICS

Pot Life	20 to 25 minutes @ 70°F/21°C
Application Temperature Range	Ambient and substrate temperatures should be between 60°F/16°C and 90°F/32°C
Tensile Strength (ASTM D-638)	3,200 psi
Tensile Modulus (ASTM D-638)	1x10 ⁵ psi
Percent Elongation (ASTM D-638)	20%
V.O.C. (ASTM D-2369, Method E)	15 g/l

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment, values obtained on field applied materials may vary and certain test methods can only be conducted on lab made test coupons.

MIXING

- Empty the contents of the amine and resin into a clean mixing container.
- Mix with a slow-speed drill and Jiffy Mixer for 1-1/2 to 2 minutes.

Note: Do not start mixing until the surface is properly prepared and dry, with the temperature of both the Standard Primer and the surface at least 60°F/16°C.

POT LIFE

After mixing, Standard Primer has a working time of approximately 25 minutes at 77°F/25°C. The working time may vary depending upon ambient and surface conditions.

CURING

Standard Primer must remain wet for the application of appropriate Stonhard overlayment. The cure time for Standard Primer is approximately 8 hours at 77°F/25°C.

APPLYING

- Standard Primer may be applied by rubber squeegee, brush or medium nap roller. It is important to obtain the proper coverage and not allow the material to puddle in holes or depressions.
- **Application of the appropriate Stonhard overlayment must be completed BEFORE the primer sets. If the primer hardens before the overlayment is applied, it must be mechanically removed and the area must be reprimed.**
- The "open time" for Standard Primer is approximately 3 hours at 77°F/25°C.

Note: Urethane Primer cannot be allowed to cure on its own.

RECOMMENDATIONS

- Stonkleen TD9 is recommended as an industrial detergent for removal of most contaminants found on concrete.
- Minimum ambient and surface temperature is 60°F/16°C at time of application.
- Apply only to a clean, sound and properly prepared substrate.
- Clean tools immediately with either scouring pads and water, or mineral spirits. Hardened material will require mechanical removal.
- Substrate temperature should be greater than 5°F/3°C above dew point.
- Application and curing times are dependent upon ambient and surface conditions. Consult Stonhard's Technical Service Department if conditions are not within the recommended guidelines.

PRECAUTIONS

- Both liquids are skin and eye irritants – avoid contact.
- The selection of proper protective clothing and equipment will significantly reduce the risk of injury. Body covering apparel, safety goggles or safety glasses and impermeable gloves are required.
- In case of contact, flush the area with copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.
- Standard Primer should never be allowed to cure without direct application of another system such as broadcast, mortar or SL Primer.

NOTES

- Material Safety Data Sheets for Standard Primer are available on line at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with application or to answer questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.

IMPORTANT: Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

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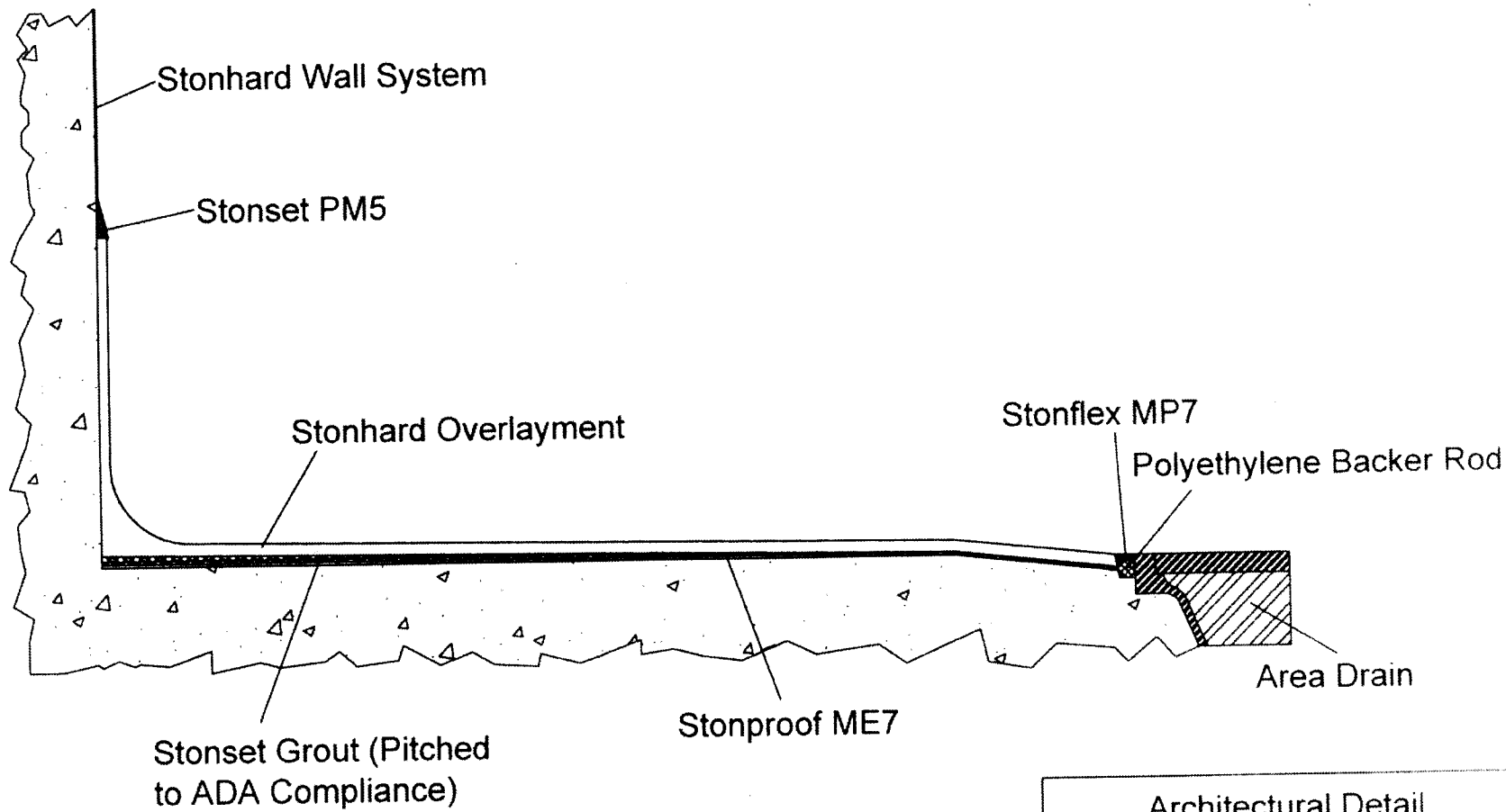
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An RPM Company



Architectural Detail

Shower Detail
Stonhard Grout/Floor/Wall

STONHARD
1000 East Park Avenue

Maple Shade

New Jersey 08052

Scale: NTS	Date: 07/05/2011	Drawing no: MISC 011	Drawn by: KME
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STONHARD

STONPROOF® ME7

PRODUCT DATA

PRODUCT DESCRIPTION

Stonproof ME7 is a two-component, liquid applied, urethane waterproofing membrane. It is designed for use on horizontal applications as a positive-side moisture barrier. It can also be used as a crack bridging isolation layer. It is 100% solids, making it ideal for use in confined areas. Stonproof ME7 can be used as a light traffic bearing membrane as well as a membrane under most Stonhard's flooring systems. Both applications provide a positive side barrier for prevention of fluid penetration to areas below the system.

PRODUCT ADVANTAGES

- 100% solids
- Excellent bond strength ensures superior adhesion
- Excellent low temperature property retention
- Seamless and monolithic
- Permanently elastic
- Non-deteriorating
- Easily applied to horizontal surfaces
- Factory proportioned packaging ensures consistent, high quality, and simplified mixing

PACKAGING

Stonproof ME7 is packaged in units for easy handling. Each unit consists of:

- 1 carton containing:
 - 6 foil bags of Isocyanate
- 1 carton containing:
 - 6 poly bags of Polyol

COVERAGE

Approximately 300 sq. ft./27.87 sq. m per unit at an application thickness of 25 mil.

STORAGE CONDITIONS

Store Stonproof ME7 at 60 to 85°F/16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 2 years in the original, unopened container.

SUBSTRATE

Stonproof ME7, with the appropriate primer, is suitable for application over properly prepared concrete, wood, brick, or metal. It is also suitable for metal or Stonhard Stonset grouts. For questions regarding other possible substrates or an appropriate primer, contact your local Stonhard representative or Technical Service.

PHYSICAL CHARACTERISTICS

Water Vapor Transmission (Permeability) (ASTM E96)<1 gram per hour per meter ²
Tensile Strength (ASTM D-412)1,200 psi
Elongation (ASTM D-412)200%
Hardness (ASTM D-2240, Shore A)70
Pot Life (@ 70°F/21°C)30 to 35 minutes
Cure Rate (@ 70°F/21°C)8 to 10 hours for tack-free surface 12 to 48 recoat window
VOC Content (ASTM D-2369, Method E)8 g/l

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment; values obtained on field applied materials may vary and certain test methods can only be conducted on lab made test coupons.

Note:

1. Passes ANSI A 118.10-2008 required by the



PATCHING

For proper membrane application, all cavities and voids in the concrete should be filled with a patching compound (Stonset PMS is recommended) prior to priming to make the surface as smooth as possible.

PRIMING

Stonhard's Standard Primer/SL Primer system must be applied to the prepared floor surface before installing Stonproof ME7 for all waterproofing applications. For applications not requiring waterproofing, Stonproof ME7 can be applied directly to the substrate with the primer.

MIXING STONPROOF ME7

Stonproof ME7 is supplied in pre-measured quantities. Mixing must be achieved by mechanical means. Mechanical mixing should be done using a heavy-duty, slow-speed drill (400 to 600 rpm) with a mixing blade. Open the polyo- and pre-mix to ensure the suspension of solids. Add the isocyanate and continue to mix for approximately 3 minutes. Avoid high-speed mixing that will entrain air into the mix. Thorough mixing of the two components is required.

APPLYING STONPROOF ME7

Stonproof ME7 can be applied at ambient and surface temperatures of 60 to 85°F/16 to 30°C. This membrane must be applied immediately after mixing the two components. Stonproof ME7 may be applied by using a 30 mil notched squeegee. Backrolling with a spiked roller will aid in air release.

Note: In thermal shock areas or under a urethane mortar (UT, UR or TG6) The Stonproof ME7 should be broadcasted to refusal with Texture 3. This will ensure a mechanical bond between the Stonproof ME7 and the overlayment.

CURING

The surface of Stonproof ME7 will be tack-free in 8 to 10 hours at 77°F/25°C. Ultimate physical characteristics will be achieved in 7 days.

RECOMMENDATIONS

- Apply only on a clean, sound and properly prepared substrate.
- Minimum ambient and surface temperatures are 60°F/16°C at the time of application.
- Do not use water or steam in the vicinity of the application.
Moisture can seriously affect the working time and properties of the material.
- Application and curing times are dependent upon ambient and surface conditions.

PRECAUTIONS

- Solvents are recommended for clean up of unreacted material. The reacted materials must be removed by mechanical means. Use these materials only in strict accordance with the manufacturer's recommended safety procedures.
- Dispose of waste materials in accordance with federal, state and local regulations.
- The use of NIOSH/MSHA approved respirators are required during spray applications.
- The selection of proper protective clothing and equipment will significantly reduce the risk of injury. Body covering apparel, safety goggles or safety glasses and impermeable gloves are required.
- In case of contact, flush the area with copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and cold water.
- Use only with adequate ventilation.

NOTES

- Safety Data Sheets for Stonproof ME7 are available on line at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with application or to answer questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.

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STONHARD

STONSHIELD® QBT

PRODUCT DATA

PRODUCT DESCRIPTION

Stonshield QBT is a nominal 1/8 to 3/16 in./3 to 5 mm thick durable flooring system with a decorative, slip resistant surface. Its troweled base provides superior impact resistance and can be applied over rough substrates. The color quartz broadcast topshield layer results in an attractive floor surface that is textured for safety. It is comprised of:

Stonshield QBT Base

A three-component, troweled mortar base consisting of epoxy resin, curing agent and color quartz aggregate

Stonshield Aggregate

Brightly colored, quartz broadcast aggregate

Stonkote CE4

A two-component, high performance, UV resistant, clear epoxy sealer

SYSTEM OPTIONS

Waterproofing

Where the total system must be waterproof, use of Stonhard's Stonproof ME7 membrane system is required with strict adherence to application instructions.

Cove Base

To provide an integral seal at the joint between the floor and the wall cove bases in heights from 2 to 6 in./5 to 15 cm are available.

TEXTURE

The system is supplied with sufficient sealer for a typical Medium Texture finish. If a more aggressive texture is desired, apply the sealer coat thinner. It is important to understand the customer's expectations with respect to texture and cleanability.

PACKAGING

Stonshield QBT is packaged in units for easy handling. Each unit consists of:

Stonshield QBT Base

- 2 cartons of Stonshield Undercoat, each containing
 - 6 foil bags of Amine
 - 6 poly bags of Resin
- 12 individual bags of Part C colored quartz aggregate

Broadcast Aggregate

- 6 individual bags of colored quartz aggregate

Stonkote CE4

- 1 carton containing

PHYSICAL CHARACTERISTICS

Compressive Strength	7,600 psi
(ASTM C-579)	after 7 days
Tensile Strength	1,100 psi
(ASTM C-307)	
Flexural Strength	1,200 psi
(ASTM C-580)	
Flexural Modulus of Elasticity	4.0×10^5 psi
(ASTM C-580)	
Hardness	85 to 90
(ASTM D-2240, Shore D)	
Impact Resistance	>160 in./lbs.
(ASTM D-2794)	
Abrasion Resistance	0.06 gm max. weight loss
(ASTM D-4060, CS-17)	
Thermal Coefficient of	
Linear Expansion	1.8×10^{-5} in./in. °C
(ASTM C-531)	
Water Absorption	0.1%
(ASTM C-413)	
Heat Resistance Limitation	140°F/60°C
	(for continuous exposure)
	200°F/93°C (for intermittent spills)
VOC Content	Stonshield QBT Base - 34 g/l
(ASTM D-2369)	Stonkote CE4 - 34 g/l
Cure Rate	12 hours for foot traffic
(@ 77°F/25°C)	24 hours for normal operations

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment. Values obtained on field applied materials may vary and certain test methods can only be conducted on lab made test coupons.

- 6 foil bags of Amine
- 6 poly bags of Resin

COVERAGE

Each unit of Stonshield QBT will cover approximately 300 sq ft (27.9 sq m) of surface at a nominal 1/8 in./3 mm thickness.

Note: At 3/16 in./5 mm Stonshield QBT Base should be installed at 200 sq. ft./18.58 sq. m. Extra base material will need to be ordered.

STORAGE CONDITIONS

Store all components of Stonshield QBT between 60 to 85°F/16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

COLOR

Stonshield QBT is available in 2 solid colors and 10 tweed pattern standard colors. Refer to the Stonshield Color Sheet. Custom colors are available upon request.

SUBSTRATE

Stonshield QBT, in conjunction with its appropriate primer, is suitable for application over properly prepared concrete, both new and old. It is also designed for renovation work over wood or sound brick and quarry tile. For questions regarding other substrates or an appropriate primer, contact your local representative or Technical Service.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond and system performance. The substrate must be dry and properly prepared utilizing mechanical methods. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service.

PRIMING

The use of Stonblend Primer is necessary for all applications of Stonshield QBT base over all substrates except Stonset grouts. Over Stonset grouts, Stonhard's Stonblend Grout Coat is used. See the appropriate primer product data sheet for details.

MIXING

Mixing is accomplished by mechanical means. The Stonshield QBT Mortar is mixed using a JB Blender or appropriate bulk mixer. The Stonkote CE4 is mixed using a drill and mixing blade. Refer to the Stonshield QBT Directions for details.

APPLYING

- DO NOT attempt to install material if the temperature of Stonshield QBT components and substrate are not within 60 to 85°F/16 to 30°C. The cure time and application properties of the material are severely affected.
- Material must be applied immediately after mixing.
- Stonshield QBT base is screeded at 1/8 in./3mm and troweled into wet primer.
- Stonshield Aggregate is broadcast immediately into the freshly troweled Stonshield QBT base.
- Sweep the floor to remove loose aggregate, then vacuum.
- Stonkote CE4 is then mixed and applied.
- Refer to Stonshield QBT Directions for further detail.

NOTES

- Procedures for cleaning of the flooring system during operations can be found in the Stonhard Floor Maintenance Guide.
- Specific information regarding chemical resistance is available in the Stonshield Chemical Resistance Guide. If a coating is utilized to seal the Stonshield QBT surface, please ensure that you consult the Product Data sheet for the coating for details regarding chemical resistance of the coating utilized.
- Material Safety Data Sheets for Stonshield QBT are available on line at www.stonhard.ca under Architects or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard products.
- Requests for literature can be made through local sales representatives and offices, or corporate offices located worldwide.

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July 20, 2016

Marrillia Design & Construction
259 W Short St, #325
Lexington KY 40507

Re: Senior Citizens Center, Lexington KY

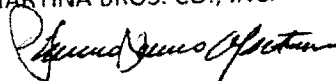
We propose to furnish the labor and material to install ceramic tile at shower, per discussion, for the net of **three thousand nine hundred fifty-seven dollars (\$3,957.00)**.

Based on: 2 x 2 mosaic thinset floor.
2 x 2 mosaic floor mudset in shower area.
4 ¼ wall tile.
Standard colors.

Contact me with any questions.

Respectfully submitted,

MARTINA BROS. CO., INC.


Enrico Dino Martina

EDM/ht