

**SeamTek Glasswall TQ
Epoxy Quartz Wall System**Part 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplemental Conditions and Division 1 Specification sections apply to work of this section.

1.02 WORK INCLUDED

- A. Provide materials, labor and equipment required to prepare designated walls and install wall finish as shown on the drawings.
- B. Related Work:
 - 1. Section Plumbing, drains.
 - 2. Section 07000: Sealants, silicone sanitary and USDA sealants.
 - 3. Flooring and cove base detail

1.03 QUALITY ASSURANCE

- A. Manufacturer: Obtain all flooring materials required for this Section from a single source.
- B. Contractor: Shall have a minimum of 5 years experience in the installation of seamless walls systems and be approved in writing by the specified manufacturer.

1.04 SUBMITTALS

- A. Submit three 12" X 12" system samples with the bid for purposes of chemical resistance testing. The end user has the option to conduct on site chemical resistance testing "in their hands" to assure that the submitted system is acceptable for use in their environment. The end user reserves the right to refuse any bidder whose samples do not meet with their approvals as a result of these tests.
- B. Manufacturer's standard single source warranty in accordance with Section 1.06 WARRANTY.
- C. Manufacturer's standard color charts for color selection.

1.05 JOB SITE MOCK-UP:

- A. A floor to ceiling sample of width to be determined but no less than 10 feet wide mock-up must be installed at the job site to establish a standard for site installation quality. The same crew shall install the mock up and the job installation. Mock up shall be installed and finished with application of topcoats for approval by architect and/or owner's representative.

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1.06 WARRANTY

Furnish manufacturer's written warranty on seamless flooring for period of two years after installation, warranting against loss of bond and wear through to concrete substrate (through normal wear and use) exclusive of substrate moisture related problems. Warranty shall be single source from the manufacturer, including material and labor. Warranties as otherwise directed by the GC or End User will necessarily negate the warranty described herein.

1.07 DELIVERY, HANDLING AND STORAGE

- A. Deliver materials in manufacturer's undamaged containers, clearly marked with the following:
 - 1. Product Name
 - 2. Manufacturer's Name
 - 3. Resin or Hardener Designation
 - 4. Mix Ratio of Resin and Hardener
- B. Handle materials in a safe and proper manner to avoid damage or spill.
- C. Inspect direct jobsite deliveries to verify correct material and quantities are received in good condition.
- D. Replace, at no cost to the owner, materials that are found to be defective in manufacturing or damaged in transit, handling or storage.
- E. Store materials per manufacturer's instructions and as follows:
 - 1. Seals and labels shall be intact and legible.
 - 2. Temperature of storage area shall be maintained between 60°F and 80°F.
 - 3. Do not use materials which have been stored for a longer period of time than the manufacturer's maximum recommended shelf life.

1.08 JOB SITE CONDITIONS

- A. Pre-Installation conference shall be required with General Contractor, Owners Representative, Finish Contractor and/or Manufacturer's Representative to review the following:
 - 1. Evaluate wall conditions and extent of repairs necessary for Contractor to begin normal preparation and installation.
 - 2. Evaluate detail conditions at all penetrations, terminations and perimeter locations. Detail problems shall be documented and resolved prior to system installation.
 - 3. The Finish Contractor shall examine poured concrete walls designated to receive the TQ system for potential moisture vapor problems and provide an add option cost as part of the bid for the remediation of moisture vapor. Moisture remediation shall be performed by a contractor that is certified by the manufacturer of the remediation material.
 - 4. Review job site conditions, including temperature, power, and lighting. Such problems shall be documented and resolved prior to wall installation.
- B. Protect surrounding substrate and surfaces as well as in place equipment from damage during surface preparation and system installation.

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- C. Job area shall be free of other trades during floor installation, and for a period of 48 hours upon completion.
- D. General Contractor shall provide adequate ventilation by use of fans or other devices.
- E. General Contractor shall maintain lighting at final end use levels during the installation.
- F. General Contractor shall provide minimum substrate and ambient temperature of 70°F and relative humidity below 80% during floor installation and until final acceptance.

1.09 CURING, CLEAN UP AND PROTECTION

- A. Cure final floor system in accordance with manufacturer's recommendations.
- B. Clean up work area, removing all equipment, materials and trash.
- C. General contractor shall provide temporary protection from construction traffic and other trades prior to final acceptance by the owner.

Part 2 - PRODUCTS

2.01 MATERIALS:

A. Systems Overview:

The wall system shall be SeamTek Glasswall TQ applied at a nominal finish thickness of 1/8". System shall be sealed with Chemical Resistant Epoxy resin. All epoxy resins shall be 100% solids for low odor and job-site safety during installation. Aggregate to be decorative ceramic coated quartz blends to be selected by the Architect. System shall have the following properties:

Compressive Strength	ASTM C-579	9,000 psi
Tensile Strength	ASTM C-307	2,400 psi
Flexural Strength	ASTM C-580	4,000 psi
Flexural Modulus	ASTM C-580	2.5 X 10 ⁵

- B. Chemical Resistance Chart (The following is a generic listing of chemical resistance and can not be counted on to be accurate for all commercial solutions. We recommend testing of the specific chemicals to verify resistance.)

E	-	Excellent (up to 7 days)
G	-	Good (up to 24 hrs.)
SS	-	Splash & Spill with immediate removal
NR	-	Not Recommended

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Chemical Exposure	Chemical Resistant Epoxy	Chemical Exposure	Chemical Resistant Epoxy
Acetic Acid 10 %	SS	Maleic acid, < 40%	NR
Acetic Acid 50 %	SS	Maleic acid, > 40%	NR
Acetic Acid, glacial	NR	Methanol	SS
Acetone	SS	Methyl ethyl ketone (MEK)	SS
Acrylonitrile	NR	Methyl isobutyl Ketone (MIBK)	SS
Aluminum Chloride	E	Methylene chloride	NR
Aluminum Nitrate	E	Mineral spirits	E
Ammon. Hydroxide, 28%	SS	Motor oil	E
Aniline	NR	Nitric acid, 10%	E
Benzene	SS	Nitric acid, 30%	SS
Benzoic acid	NR	Oleic acid	E
Butyl acetate, 10%	NR	Oxalic acid, 10%	G
Butyric acid, 10%	G	Perchloric acid, 30%	NR
Calcium chloride, 30%	E	Perchloroethylene	NR
Calcium hypochlorite, 20%	E	Phenol, > 10%	SS
Chlorine, Wet and dry	SS	Phenol, > 10%	NR
Chromic acid, 10%	SS	Phosphoric Acid, 50%	E
Citric acid, 10%	E	Phosphoric acid, 85%	SS
Clorox, full strength	SS	Picric acid	NR
Cresylic acid	NR	Potassium hydroxide	E
Diacetone alcohol	NR	Potassium permanganate, 25%	SS
Diethyl Phthalate	E	Silver nitrate, 10%	SS
Ether	NR	Skydrol A500	E
Ethyl Acetate	NR	Sodium hydroxide, 10%	E
Ethyl alcohol, 95%	SS	Sodium hydroxide, 50%	E
Ethylene dichloride, 10%	NR	Sodium hypochlorite, 15%	SS
Ethylene glycol	E	Sodium hypochlorite, 50%	NR
Formaldehyde, 37%	SS	Sulfuric acid, 10%	E
Formic acid, < 10%	SS	Sulfuric acid, 30%	E
Formic acid, >10%	SS	Sulfuric acid, up to 98%	SS
Gasoline	E	Tannic acid	G
Glycerin	E	Tartaric acid	G
Hydraulic Fluid	E	Toluene	SS
Hydrochloric acid, 10%	E	Triacetin	G
Hydrochloric acid, 37%	G	Trichloroethane	G
Hydrofluoric acid	NR	Trichloroethylene	G
Hydrogen peroxide, 6%	SS	Trisodium phosphate	E
Isopropyl alcohol	SS	Turpentine	G
JP Jet Fuel	E	Urea	E
Lactic acid, < 20%	E	Urine	E

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Part 3 - EXECUTION

3.01 Surface Preparation

- A. **For Poured Concrete and Tilt up Walls:** Prepare concrete to "open" surface pores by means of sand-blasting or sponge jet, removing contaminants and bond breaking substances, including but not limited to dust, latencies, curing compounds, coatings, sealers, oil and grease. Oil and grease not removed by blasting shall be chemically removed. Mechanically remove delaminated or deteriorated concrete by means acceptable to job site conditions. Areas to be patched shall be saw cut to minimum 1/2" depth at perimeters and keyed to existing concrete. Use patching materials approved by the manufacturer of the coating system.

-OR-

For Renovation Projects Where Existing Coatings are in Place: Assure that the existing coating is bound tightly to the substrate by performing preliminary "pull tests". Assure that the existing coatings and substrate are dry and exhibit no signs of a poor bond. Remove loose and deteriorating coatings to expose sound substrate and patch back to original elevation prior to prep of the remaining surface. Thoroughly prepare the existing surface using sand blast or sponge jet. Grinding with abrasive wheels or sand paper will be acceptable only if approved by the manufacturer.

3.02 APPLICATION

- A. Apply the TQ system components in accordance with the statements in System Overview above and handle materials per manufacturer's installation instructions, including mixing and application. Terminate at edge of expansion joints, or as designated by Design Professional. Cure resinous materials in compliance with manufacturer's directions.

3.03 CLEANING AND PROTECTION

- A. Cleaning: Remove all debris resulting from the system installation during the progress of the work.