

SECTION 09817
MASTERTOP®
DESCOGLAZE-I
EPOXY/POLYESTER WALL & CEILING SURFACING

NOTE TO SPECIFIER

The purpose of this suggested specification is to assist the specifier in developing a specification for the use of Master Builders MASTERTOP *DESCOGLAZE-I SYSTEM*. Questions regarding the selection, installation, or intended end use of Master Builders materials should be directed to a Master Builders technical representative. This specification is prepared to be a part of a complete project specification.

PART 1 - GENERAL

1.01 Related Documents

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this section.

1.02 Summary

- A. DESCOGLAZE-I is a monolithic wall and ceiling coating system able to withstand severe impact and temperature fluctuations and can be modified depending upon the agreed to requirements of this project.

1.03 References

ASTM E 96	Test Method for Water Vapor Transmission of Materials
ASTM D 1360	Test Method for Fire Retardancy of Paints
ASTM D 1864-88	Test Method for Moisture in Mineral Aggregates
ASTM D 4060-90	Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
ASTM E 84	Test Method for Surface Burning Characteristics of Building Materials

1.04 System Performance Requirements

- A. Provide an epoxy wall and ceiling coating system that, when cured, produces the following typical properties:

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>RESULT</u>
Taber Abrasion	ASTM D 4060	0.025 gram loss after 14 day cure @ 200 cycles using CS17 wheels with 1000 gram loads
Fire Resistance	ASTM E 1360	3.8 grams weight loss indicating a fire resistant product
Moisture Resistance Transmission	ASTM E 96	Less than 1 perm indicating a vapor barrier
Color Retention	ASTM E 188	No fading, loss of gloss or effect on the film after 100 hours exposure
Hardness	Sward Hardness	35
Scrubability	Gardner Scrubbability Machine	No effect after 1000 cycles Gloss before test - 86 Gloss after test - 85
Fire Resistance	ASTM E 84	Flame Spread Index: 7 Smoke Development: 5 Class "I" or "A"

1.05 Submittals

- A. Submit manufacturer's technical data and product literature indicating that the products comply with specified requirements.
- B. Submit two mock-up sample coupons that are representative of the finished wall and ceiling surface, texture and color.

1.06 Quality Assurance

- A. Installer Qualification: Use only an installer that is certified in writing by the wall system manufacturer of having completed a program of instruction in proper methods for preparation of substrate, possible delaminated areas, crack and joint repair and complete wall and ceiling system installation.
- B. Mock-up: On site, fabricate a panel approximately 100 sq. ft. (10 sq. m) to demonstrate quality of finished wall and ceiling system, complying with manufacturer's instructions. Install panel where directed by architect/engineer. Maintain panel as a standard of quality for all installations.

1.07 Delivery, Storage and Handling

- A. Deliver product in factory packages, clearly marked with manufacturer's identification, printed instructions, lot numbers and shelf life expiration date for each component.
- B. Store materials at 50°C to 90°F (10°C to 32°C) in dry environment away from sunlight, heat, or other hazards.

1.08 Project Conditions

- A. Maintain minimum substrate surface temperature of 55°F (12°C) for a minimum of 48 hours before, during and after installation, or until cured.
- B. Substrate must be free of hydrostatic, capillary or moisture vapor pressure. Substrates in contact with ground must have a properly installed, effective vapor barrier to help prevent potential problems resulting from hydrostatic, capillary or moisture vapor pressure. Concrete must contain less than 3% moisture when tested per ASTM D 1864.
- C. Do not apply sealers or membrane curing agents to concrete. Moisture curing of concrete is recommended.
- D. Concretes containing lightweight aggregates are not recommended substrates.
- E. Provide ventilation, lighting and clean, drinkable water supply.
- F. Advise other trades of fixtures and fittings not to be installed until system is cured, such as: radiators, painting, decorating, floor-supported equipment or cabinetwork, caulking, plumbing, fixtures, etc.
- G. Work areas shall be kept free of traffic and no trades shall be permitted in rooms during the application and curing of the coating.
- H. Protect adjacent surfaces from damage resulting from work of this trade. If necessary, mask and/or cover adjacent surfaces, fixtures, equipment, etc. by suitable means.
- I. Gypsum drywall is only suitable for dry areas. Water-resistant Gypsum board is suitable in occasionally wet areas. Install drywall in accordance with drywall manufacturer's directions and with the factory paper bound edge 1/4 inch (6.4 mm) above floor line. Tape and fill joints; fill all fastener heads and other indentations for smooth finished surface.

PART 2 - PRODUCTS

2.01 Materials

- A. Resinous Wall and Ceiling System: DESCOGLAZE-I by Master Builders, Inc.

PART 3 - EXECUTION

3.01 Inspection

- A. Before starting work, ensure that environmental and site conditions are suitable for application and curing.
- B. Inspect surfaces for acceptability of levelness, moisture content and other critical factors at time of installation.
- C. Report in writing to architect/engineer, with copy to manufacturer, of deficiencies that could impair work. Surfaces must be approved by the Certified Contractor prior to application of the system.

3.02 Surface Preparation

- A. Prepare surfaces in accordance with manufacturer's instructions.
- B. Remove concrete laitance by steel shot blasting, grit blasting, or other method approved by manufacturer.
- C. Surface must be clean, sound and dry prior to application.
- D. Pre-fill surface irregularities, holes and cracks in accordance with manufacturer's recommendations.

3.03 Mixing

- A. Comply with manufacturer's instructions for mixing procedures.
- B. Pre-mix each component before every batch to ensure uniformity.
- C. Carefully measure and mix the components together.

3.04 Installation

- A. Follow manufacturer's written instructions.
- B. Prime entire surface with recommended primer.
- C. Apply coating in accordance with manufacturer's instruction to a total thickness depending upon the agreed to requirements of the installation.
- D. Apply grout coat(s) and top coat(s) at manufacturer's recommended coverage to provide uniform, dense surface.
- E. Allow proper cure time for each installation step.
- F. Allow the finished system to cure for a minimum of 7 days from completion before putting into service.

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