

SECTION - DESCO WALLGLASS FR WALL SURFACING SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Sections, apply to work of this Section.

1.2 SUMMARY

- A. This Section includes providing fiberglass reinforced special coating system.
- B. Related work in other sections:
 - 1. Masonry: Section
 - 2. Concrete: Section
 - 3. Painting: Section

1.3 QUALITY ASSURANCE

- A. All materials must be recommended and manufactured by a single supplier to insure compatibility and proper chemical and mechanical bond.
- B. Surfacing shall be applied by a surfacing applicator approved by the Architect, with a minimum of seven (7) years experience installing the brand of surfacing in similar size and function projects. A list of ten (10) completed projects using the specified materials must be submitted proving seven (7) years experience by the lead mechanic.
- C. Surfacing applicator shall provide to the architect a completed list of jobs including the names of the Architect, General Contractor, Owner, telephone numbers of all concerned, materials used, quantity installed and date completed on similar projects.
- D. Surfacing applicator must provide a written guarantee for materials and workmanship between applicator and surfacing manufacturer for one (1) year.
- E. Surfacing applicator or manufacturer seeking approval of products other than what is specified must supply samples, full product information, technical data with specifications, certification from an independent testing laboratory that the product being submitted for approval meets all requirements of the performance properties specified within this specification, installation instructions and comply with the above quality assurances in writing fourteen (14) days before bid letting. Omission of any item will result in an automatic rejection.
- F. Bidders will be notified by addendum of substitute surfacing materials, if approved.

1.4 SUBMITTALS

- A. Surfacing applicator shall submit samples of color and textures for Architect's approval.
- B. Prior to commencing work, at architect's discretion, applicator shall install a 100 square foot sample on the job of desired color and texture and when approved, this will serve as the standard for the entire project.

1.5 PRODUCT STORAGE AND ENVIRONMENTAL CONDITIONS

- A. Material temperatures shall be a minimum of 55⁰F before use.
- B. Work on wall coating shall not commence until the building can be maintained at a minimum temperature of 55⁰F for 48 hours before, during and 48 hours after application. Areas shall also be broom clean and reasonably dust free and shall have adequately controlled ventilation with bright, uniform lighting.

1.6 PROJECT CONDITIONS

- A. Before commencing work, ensure environmental and site conditions are suitable for application and curing.
- B. Surfaces shall be acceptable in accordance with flooring manufacturer's recommendations.
- C. Notify Architect and Contractor in writing of unsuitable surfaces and conditions. Commencement of work shall imply acceptance of surfaces and working conditions.

1.7 PROTECTION

- A. Protect adjacent surfaces from damage resulting from work of this trade. If necessary, mask and/or cover adjacent surfaces, fixtures, cabinet work, equipment, etc. by suitable means.

1.8 WARRANTY

- A. Applicator shall notify manufacturer of project requirements before bidding. An officer of the manufacturing company shall provide written statement before bidding; to the Architect, that they accept single source warranty for entire installation including labor for one year. By agreeing to sign warranty and supply product, manufacturer waives all rights of sellers' liability of warranty and limitation. Warranty shall include removal and replacement if proven defective. Defective items are, but not limited to debonding, regionalized discoloration, excessive wear and staining by bodily fluids. Non-acceptance of above by manufacturer is grounds for rejection of product.

- A. The General Contractor shall allow sufficient time to the specialty applicator to

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Chemical resistant wall surfacing with integral fiberglass embedded on block walls as called for on the drawings, shall be **Desco WallGlass FR** manufactured by Desco Coatings, Inc. **1-800-426-4164**.
- B. Desco WallGlass FR, micro flake, is a 15 to 25 mil system with layered micro flake that forms overlapping platelets “decreasing” permeability of the system. **Architect should select this system for use over block, cmu or poured concrete when a low permeability system is preferred.**
- C. Coating shall be colors as selected by Architect. Standard colors are available.
- D. Coating will conform to the following physical properties:

<u>TEST</u>	<u>METHOD</u>	<u>RESULTS</u>
Compressive Strength	ASTM 695-85	10,370 psi
Tensile Strength	ASTM 695-85	3,160 psi
Tensile Elongation	ASTM D638-86	8.0%
Hardness	Shore D	82
Abrasion Resistance	ASTM D4060-90	.033
Mar Resistance	ASTM D5178-91	1.0 Kg
Chemical Resistance - Unaffected by the following:		
Acetic Acid 10%	Citric Acid 4 oz/gal	
Fluorboric Acid 25%	Hydrochloric Acid 45 fl.oz/gal	
Hydrofluoric Acid 10%	Potassium Hydroxide 7 oz/gal	
Sulfuric Acid 65%	Trisodium Phosphate 3 oz/gal	
Animal Urine	Blood	

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Coating shall be applied in a four step process including filling of block with filler, applying fiberglass, body coat and sealer coat.
- B. Flakes shall be an alkali resistant mineral approved by coating manufacturer.
- C. Total film thickness for the coating system including fiberglass shall be 15 to 25 mil system with random fiberglass strands.
- D. When coatings are completed, the fiberglass shall have a slight texture but be free of pinholes.

3.2 OTHER CONDITIONS

- A. The General Contractor shall allow sufficient time to the specialty applicator to complete the coating application and at no time shall speed of project completion or unsuitable drying conditions be allowed to detrimentally speed up these operations. All substrates must be properly cured and dry. Moisture content shall not exceed 16 percent. Substrate temperature is to be maintained at a minimum of 50⁰F during application and for a minimum of 24 hours thereafter.
- B. The General Contractor shall provide sufficient electric power, light, heat and working conditions to permit the proper application of these coatings. Areas to be coated must be kept free of traffic and no other trade may be allowed to work in area during application procedure.
- C. Plumbing fixtures, toilet and moveable partitions, radiators, grills, etc., shall not be installed until the coatings have been applied.
- D. Painting and decorating, including installation of resilient floor covering shall be completed after the coatings have been applied.
- E. Hard floors and base, such as concrete, ceramic tile or terrazzo shall be completely finished before coatings application.
- F. Caulking, where necessary, is to be installed after coatings application. If caulking is to precede coatings, the caulking compound must be of the non-petroleum based type.
- G. Walls below grade shall be suitably waterproofed from the outside by others.
- H. At completion of the installation, an inspection shall be made jointly by the Coatings Contractor and General Contractor to obtain approval that the coated surfaces are free of damage. It will then be the responsibility of the General Contractor to protect this work from subsequent damage.

END OF SECTION