

STUC-O-FLEX

DIRECT APPLICATION TO METAL MANUFACTURERS SPECIFICATION / SECTION 09960

PART 1-GENERAL

1.00 SCOPE

- A. Manufacturer's specifications containing the requirements necessary for proper installation of the STUC-O-FLEX finish coating over a properly prepared Metal substrate.

1.01 DESCRIPTION

- A. Provide all labor, materials, and equipment necessary to install the field applied STUC-O-FLEX finish coating.
B. Related work specifications (as required):
1. Sealant 07900

1.02 QUALITY ASSURANCE

- A. Testing: Finish shall meet testing standards as outlined below:

TEST	METHOD	RESULT
ELONGATION % (FINISH)		105 Percent
WATER VAPOR TRANSMISSION	ASTM-E96	14 GRAINS PER HOUR / SQ. FT. (AVERAGE)
SALT SPRAY RESISTANCE	B-117	300 HOURS NO DELETERIOUS EFFECTS
ACCELERATED WEATHERING	G-23-81	2000 HOURS NO DELETERIOUS EFFECTS
ABSORPTION FREEZE THAW	60 CYCLES	NO CRACKING, CHECKING
TENSILE BOND STRENGTH	ASTM C-297	127.9 PSF INSULATION FAILURE
WATER PENETRATION TEST	ASTM-E-331	NO WATER PENETRATION OCCURRED ON SUBSTRATE
WATER RESISTANCE TEST	ASTM D-2247	NO CRACKING, BLISTERING, PEELING OR COMPROMISE
MILDEW / FUNGUS RESISTANCE	810 B	NO MOLD OR MILDEW GROWTH DURING TEST
WIND DRIVEN RAIN		NO DELAMINATION NO WATER INTRUSION
FIRE TESTING TUNNEL TEST	ASTM E-84	FLAME SPREAD < 25 SMOKE DEVELOPED < 450 CLASS "A" FIRE RATED

NOTE: ADDITONAL TEST RESULTS AND DATA AVAILABLE UPON REQUEST
Technical Support Contact 1-800-305-1045 or e-mail technicalservice@stucoflex.com

- B. Finish shall contain only Calcium Aggregates without Silica Sand
C. Finish shall be comprised of only 100% Acrylic Polymer binders

- D. Finish shall exceed 105% elongation
- E. Finish shall have in excess of 80 million square feet in-service.
- F. Finish shall exceed an 1/8" mandrel bend test with out rupture of the membrane
- G. Finish shall be manufactured in the United States of America

GENERAL

1. The minimum slope of any surface shall not be less than 6" in 12".
2. To insure long-term performance, the system shall be engineered with regard for intended installation.
3. Expansion joint details required as specified by the design professional in addition to; where dissimilar materials abut, in conjunction with building expansion joints and where extreme structural movement may occur.
4. All surfaces shall be clean, dry, and free dust, dirt, mildew, form oils, grease, laitance and foreign materials.
5. Any and all loose, flaking, or oxidized materials on the surface shall be thoroughly addressed by sand blasting, pressure washing, sanding, and/or wire brush prior to Panel Prime, other Primers or Stuc-O-Flex Finish.
6. Caulking details, flashings, and terminations shall insure no water intrusion behind Stuc-O-Flex finish or substrate.
7. Some maintenance may be required to assure continued performance of properly detailed terminations within this system.

1.03 SUBMITTALS

- A. Contracted applicator shall provide one (1), 2' by 2' foot sample for each texture and color selection. This will be fabricated using the same tools, equipment and techniques as intended for project installation.
- B. Prior to start up, obtain architect's and owner's approval on above samples both in color and texture.
- C. Approved samples shall be maintained throughout project construction in order to judge completed work for acceptance.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Materials shall be delivered in original unopened packages with labels clearly visible.
- B. Products shall be stored out of direct sunlight, protected from the weather, tightly sealed at temperatures above 40°F.
- C. Do not allow product to freeze.

1.05 JOB CONDITIONS

- A. Ambient temperatures shall be 40°F or greater at time of installation, and will remain so for a minimum 24 hours or protection and heat must be supplemented to insure proper drying.
- B. Product installation shall not take place during inclement weather unless adequate protection is provided both during application and until cured. Protect materials from rain until dried.
- C. High humidity conditions (fog, mist, etc.) will significantly extend drying time.

1.06 LIMITED WARRANTY

- A. Upon proper installation of Stuc-O-Flex Finish a Standard Product Warranty will be issued.
- B. Contact Stuc-O-Flex International, Inc. for Specific Details on Warranty Options @ 1-800-305-1045.

PART 2 - PRODUCTS

2.01 GENERAL

- A. In accordance with these specifications all products required for the STUC-O-FLEX installation shall be obtained from STUC-O-FLEX INTERNATIONAL unless otherwise approved in writing.

2.02 MATERIALS

- A. PRIMER, Pre-primed metal surfaces will not require additional primers in most cases. Kynar, Polyester or Urethane coatings may require primer application prior to Stuc-O-Flex Finish application / Adhesion tests should be conducted.
(Contact Technical Center @ 1-800-305-1045)
- B. STUC-O-FLEX FINISH, finish coat as manufactured by STUC-O-FLEX INTERNATIONAL, INC. is a factory premixed, 100% acrylic based, thermo plastic, color integrated, textured finish for use with this application. Numerous textures can be achieved using a variety of application methods. Spray applied or hawk & trowel - Sand finish, skip trowel, knock down, lace, etc. Provided in 20 standard colors, special colors upon request, See STUC-O-FLEX standard color chart.
- C. WATER, shall be clean and potable in clean containers without any residue or foreign materials.
- D. SEALANT (CAULKING), Shall be of appropriate quality to prevent potential water intrusion. Consult manufacturers for specific details and specification.

2.03 MIXING AND PREPARATION

- A. PRIME: Mix to manufacturers recommendations.
- B. STUC-O-FLEX finish coat: Using a jiffler paddle type mixer agitate material until a homogeneous consistency is obtained. Care should be taken so as NOT to introduce air into finish coat material.
- C. Never add modifiers, admixtures or other products not specified to any STUC-O-FLEX manufactured products.

PART 3 – EXECUTION

3.01 INSPECTION

- A. Substrate shall be examined for compliance with construction documents and system specifications prior to installation Stuc-O-Flex Finish.
- B. Architect and General Contractor will be made aware of any such substrate concerns. All problem areas shall be rectified before installation may continue.
- C. Details for proper sealant joints shall be required.
- D. Substrates and Primers will have been addressed as set forth in these specifications.

3.02 INSTALLATION

- A. PRIMER (As required): Apply primer with airless sprayer, medium nap roller, or paint brush as recommended by manufacturer to all areas where Stuc-O-Flex finish coat is to be applied. A uniform pinhole free layer should be provided to insure complete coverage of wall surface.
 - 1. Allow to dry completely.
- B. STUC-O-FLEX ACRYLIC FINISH COAT, Apply in color and texture as approved by Architect and/or Client using stainless steel trowels or appropriate spray equipment with sufficient manpower and equipment to insure a continuous operation without cold joints, scaffolding lines, etc. Finished wall sections shall match approved job site sample. Coverage and thickness shall vary depending on texture desired and specified final appearance.
 - 1. Mix STUC-O-FLEX prior to use with paddle type blade to insure consistency.
 - 2. Small amounts of water may be added to adjust viscosity, 16oz. maximum per 5-gallon pail.
 - 3. Apply Stuc-O-Flex finish coat as to completely cover all areas of the metal surface with a nominal 1/16" thickness.

3.03 JOB SITE CLEAN UP

- A. STUC-O-FLEX applicator shall remove all excess wall system materials from completed project areas.
- B. Coverings, scaffolds, etc. shall be removed.