

STUC-O-FLEX

DIRECT APPLICATION TO METAL  
MANUFACTURERS SPECIFICATION / SECTION 09960

*PART 1-GENERAL*

1.00 SCOPE

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

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

Optional but Encouraged - "WaterWay Rainscreen Drainage Mats" create space between your building and the elements. They also contribute to air circulation and ventilation when properly designed. Water drainage and increased air flow will enhance drying and in turn reduce the damaging effects of water penetration. A Nylon / Polymer core of fused, entangled filaments in varying thicknesses from a nominal ¼ inch to ¾ inch with a protective filter fabric bonded to one side or consider WaterWay Plus - a "Patent Pending" Drainage Mat consisting of polymer matrix laminated to a breathable filter fabric on one side and a code compliant WRB on the other side. This multiple layer product creates a one step WRB and Rainscreen drainage assembly in a single application. Information & Specification @ [http://www.stucoflex.com/rainscreen\\_drainage\\_mats.htm](http://www.stucoflex.com/rainscreen_drainage_mats.htm)

- A. Testing - Finish shall meet standards as outlined below:
  - 1. Finish shall contain only Calcium Aggregates without Silica Sand
  - 2. Finish shall be comprised of only 100% Acrylic Polymer binders
  - 3. Finish shall exceed 105% elongation
  - 4. Finish shall have in excess of 250 million square feet in-service.
  - 5. Finish shall exceed a 1/8" mandrel bend test with out rupture of the membrane
  - 6. Finish shall be manufactured in the United States of America

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](mailto:technicalservice@stucoflex.com)

### 1.03 GENERAL

- A. The minimum slope of any surface shall not be less than 6" in 12".
- B. To insure long-term performance, the system shall be engineered with regard for intended installation.
- C. 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.
- D. All surfaces shall be clean, dry, and free dust, dirt, mildew, form oils, grease, laitance and foreign materials.
- E. 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.
- F. Caulking details, flashings, and terminations shall insure no water intrusion behind Stuc-O-Flex finish or substrate.
- G. Some maintenance may be required to assure continued performance of properly detailed terminations.

### 1.04 SUBMITTALS

A. Samples:

1. The applicator shall, before the project commences, provide the owner or architect, a sample of suitable size of each color and texture as specified for the project for purposes of obtaining approvals.
2. Each sample shall be prepared using the same tools and techniques as required for the actual application.
3. An approved sample shall be available and maintained at the job site.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver all material supplied by the manufacturer in original, unopened packages with legible manufacturer's identification and labels intact.

B. Store all products supplied by STUC-O-FLEX in a cool dry place, out of direct sunlight, protected from weather and other damage. In addition, the materials shall be stored in tightly sealed containers at a temperature of not less than 40°F at all times.

1.06 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

1.07 COORDINATION AND SCHEDULING

A. The work in this section requires close coordination with related sections and trades.

B. The tops of all walls must immediately be protected to prevent water infiltration behind the exterior wall assembly. The cap flashing should be installed immediately after the Finish coat has been cured.

C. Sealant and waterproofing materials shall be installed in a timely manner as to prevent water intrusion behind the Stuc-O-Flex coatings.

1.08 MAINTENANCE

A. Sealant and other components of the building must be inspected periodically to confirm performance as originally installed. Corrections shall be made at once.

1.09 LIMITED WARRANTY

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

*PART 2 - PRODUCTS*

## 2.01 GENERAL

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

Stuc-O-Flex International, Inc.  
17639 NE 67<sup>th</sup> Court  
Redmond, WA 98052  
800-305-1045  
[info@stucoflex.com](mailto:info@stucoflex.com) [www.stucoflex.com](http://www.stucoflex.com)

## 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. 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.

C. Mix STUC-O-FLEX prior to use with paddle type blade to insure consistency. Small amounts of water may be added to adjust viscosity, 16oz. maximum per 5-gallon pail.

D. 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.