

STUC-O-FLEX

RENEW ELASTOMERIC ACRYLIC COATING (PAINT GRADE)
MANUFACTURERS SPECIFICATION / SECTION 09 97 23

PART 1-GENERAL

1.00 SCOPE:

Manufacturer's specifications containing the requirements necessary for proper installation of the Stuc-O-Flex RENEW Elastomeric Coating (Paint Grade) over a properly prepared substrates.

1.01 DESCRIPTION

A. Provide all labor, materials, and equipment necessary to install the field applied Stuc-O-Flex RENEW Elastomeric Coating (Paint Grade).

B. Related work specifications:

1. Section 03 30 00 / Cast-in-Place Concrete
2. Section 03 41 00 / Precast Structural Concrete
3. Section 04 20 00 / Unit Masonry Assemblies
4. Section 07 02 40 / Exterior Insulation and Finish System
5. Section 09 96 00 / Acrylic Textured Finish
6. Section 09 24 00 / Portland Cement Plastering

1.02 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer Qualifications: Company with minimum 15 years of experience in manufacturing of specified products
2. Applicator Qualifications: Company with minimum of 5 years experience in application of specified products on projects of similar size and scope, and is acceptable to product manufacturer.
 - a. Successful completion of a minimum of 5 projects of similar size and complexity to specified Work.

B. Field Sample:

1. Contracted applicator shall provide one (1), 2' by 2' foot sample for each color selection. This will be fabricated using the same tools, equipment and techniques as intended for project installation. Install at project site or pre-selected area of building, using specified material.
2. Apply material in accordance with manufacturer's written application instructions.
3. Approved samples shall be maintained throughout project construction in order to judge completed work for acceptance.
4. Do not destroy sample until application is complete and approved.
5. Obtain Architect's written approval of sample before material application, including color and texture.
6. Perform adhesion tests if any questionable areas are encountered

- C. Prior to starting, obtain appropriate approvals from architect and / or building owner.
- D. Approved samples shall be maintained throughout project construction in order to judge completed work for acceptance.
- E. Stuc-O-Flex Renew Specifications and Specimen Warranty

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.
- D. Do not apply over moving cracks, control joints, or expansion joints.
- E. Do not apply to horizontal traffic-bearing surfaces

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 or freezing temperatures until dried.
- C. High humidity conditions (fog, mist, etc.) can significantly extend drying time.

1.06 LIMITED WARRANTY

- A. Upon proper installation of STUC-O-FLEX RENEW; a standard product warranty will be issued.

1.07 PERFORMANCE REQUIREMENTS (MINIMUM)

A.

TEST	METHOD	RESULT
ELONGATION % (FINISH)	ASTM D 2370	305 Percent
WATER VAPOR TRANSMISSION	ASTM - 1653	7 - 10 GRAINS PER HOUR (AVERAGE)
SALT SPRAY RESISTANCE	B-117	300 HOURS NO DELETERIOUS EFFECTS
ACCELERATED WEATHERING	ASTM D 4587	2000 HOURS NO DELETERIOUS EFFECTS
ABSORPTION FREEZE THAW	60 CYCLES	NO CRACKING, CHECKING
TENSILE BOND	ASTM D 2370	200 PSI
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	TTC 555	MAX. 0.2 LBS GAIN
FIRE TESTING TUNNEL TEST	ASTM E-84	FLAME SPREAD < 25 SMOKE DEVELOPED < 450 CLASS "A" FIRE RATED
FUNGUS RESISTANCE	ASTM D 3273	MINIMUMUM 8 / NO GROWTH
LOW TEMPERATURE FLEXIBILITY	ASTM D 1737	NO CRACKING

PART 2 - PRODUCTS

2.01 GENERAL

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

Stuc-O-Flex International Inc.
17639 NE 76th Court
Redmond, WA 98052
1-800-305-1045
425-885-5085 / www.stucoflex.com

2.02 MATERIALS

- A. PRIME SEAL, (Acrylic based stain blocking primer), protects substrate from moisture, creates uniform porosity and prevents bleed through which could discolor finish coat. (optional - as required / contact technical service) (Optional – as required)

- B. ELASTOMERIC JOINT COMPOUND, Stuc-O-Flex Elastomeric Joint Compound offers new technology in flexible sealants. This ready to apply product is specifically designed for treatment of cracks, butt joints or seams in existing surfaces prior to application of Stuc-O-Flex Renew. Stuc-O-Flex Elastomeric Joint Compound is the first component used prior to Prime Seal or Stuc-O-Flex Renew (as required for cracks in the substrate / contact technical service)
- C. STUC-O-FLEX RENEW, as manufactured by STUC-O-FLEX INTERNATIONAL, factory premixed, 100% acrylic based, color integrated, elastomeric finish for use as a decorative protective membrane. Provided in 20 standard colors, special colors upon request, See STUC-O-FLEX standard color chart.
- D. WATER shall be clean and potable in clean containers without any residue or foreign materials.
- E. Sealant system shall be of appropriate quality to prevent water intrusion. Consult manufacturers for specific details and specification.

2.03 MIXING AND PREPARATION

- A. PRIME SEAL: Mix to a uniform consistency (do not add water)
- B. ELASTOMERIC JOINT COMPOUND: Mix to a uniform consistency.
- C. STUC-O-FLEX "RENEW": Using a 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.
- D. 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 application of the Stuc-O-Flex Renew.
- B. Architect and/or General Contractor will be made aware of any such substrate concerns. Any problem areas shall be rectified before installation may continue.
- C. The minimum slope of any surface shall not be less than 4" in 12".
- D. To insure performance substrate system shall be engineered with regard for intended installation.
- E. Do not use below grade or on surfaces subject to hydrostatic pressure
- F. Substrates shall be cured, clean, dry, and free of form oil, curing compounds or bond breaker.

3.02 INSTALLATION

- A. SUBSTRATE: shall comply with Section 1.02 "General" listed above, prior to product applications.
- B. ELASTOMERIC JOINT COMPOUND: Using a stainless steel trowel or sheetrock knife apply Joint Compound mixture to all cracks larger than 1/32 inch providing a smooth finished appearance.

1. Allow to dry minimum 24 hours or until dried below 15% moisture content.

C. PRIME SEAL (Optional): Apply primer with airless sprayer, medium nap roller, or paint brush to all areas which Stuc-O-Flex Renew is to be applied. A uniform pinhole free layer should be provided to insure no shadowing or discoloration will occur from the Stucco substrate.

1. Allow to dry completely.

D. STUC-O-FLEX RENEW ELASTOMERIC COATING, Apply in color as approved by Architect and/or Client using or appropriate spray equipment or rollers 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 substrate, method of application. Although to assure proper material thickness, coverage will average approximately 800 Sq. Ft. per 5-gallon pail

1. Mix STUC-O-FLEX RENEW 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.

3.03 JOB SITE CLEAN UP

A. STUC-O-FLEX applicator shall remove all excess materials from completed project areas.

B. Coverings, scaffolds, etc. shall be removed.