

# Stuc-O-Flex®

## Breathable Elastomeric Acrylic Finish

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### Description:

Stuc-O-Flex is a highly resilient 100% Acrylic Polymer compound that looks and feels like traditional stucco. This coating provides **extreme crack bridging abilities** in a durable, color integrated protective membrane that resists fading, dirt pick-up and lasts for decades. Its thermo-plastic and elastomeric nature allows for building movement and stresses while maximizing resistance to cracks. It can be applied over traditional and one coat stucco, prepared concrete, masonry, brick, primed metal, EIFS, Magnesium Oxide Board and Fiber-Cement sheathings.

Stuc-O-Flex is available in 4 different aggregate choices; Fine, Sand, Modified, and Putz. Aggregate size and application method determines the final texture and coverage of each product. Texture options range from the heaviest southwest style stucco to the more contemporary plaster finishes.

See Colors and Textures for samples.

### Color:

Stuc-O-Flex is available in 20 standard colors or virtually any color special required (over 10,000), see color chart for special color formulation policy.

### Use:

Stuc-O-Flex Finishes provide color, texture and a protective weathering membrane for the Waterway Drainable Stucco Assembly, traditional stucco/Portland cement plaster, EIFS, direct-applied systems, and a wide variety of surfaces including metal, cementitious sheathings, block, brick, masonry, render, etc. Stuc-O-Flex can also be used for interior application over a variety of other common substrate materials.

### Mixing:

Mix at a low speed using a rust free paddle type mixer and 1/2" drill to assure uniform consistency prior to use. Avoid introducing air into the finish. Small amounts of clean potable water can be added to the Stuc-O-Flex finish to aid workability (maximum 16 oz.) Spraying the finish may require thinning with water, approximately 10 - 20 ounces of water depending on equipment.

### Physical Properties:

TEST	METHOD	RESULT
ELONGATION % (FINISH)		105 Percent
WATER VAPOR TRANSMISSION	ASTM-E96	13 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	ASTM C-297	97.9 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		NO DELAMINATION, NO WATER INTRUSION
FIRE TESTING TUNNEL TEST	ASTM E-84	FLAME SPREAD < 25 SMOKE DEVELOPED < 450 CLASS "A" FIRE RATED

**Adhesion:**

Excellent adhesion to properly prepared approved surfaces.

**Coverage Rates:**

Approximately 110 - 140 square feet per pail for sand finish @ a nominal 1/16 inch. Varies depending on aggregate size (i.e. Fine, Sand, Modified or Putz) Heavier textures will affect coverage rates.

**Drying Time:**

Typical dry time is 24 hours, depending on climate. Drying time can be greatly affected by low temperatures and/or high humidity. Do not allow product to freeze or allow exposure to rain while drying. Allow additional time during humid and/or cold temperatures. Complete cure in approximately 2 weeks.

**Storage:**

Protect from freezing. Store in a cool, dry area out of direct sunlight in tightly sealed containers. Recommended storage temperature between 40-90°F.

**Clean-up:**

Water soluble when wet. Clean tools and equipment with water immediately after use. Dried material is extremely difficult to remove.

**Shelf Life:**

One year, if protected from direct sunlight and freezing temperatures.

**Limitations:**

1. Ambient and surface temperatures must be above 40°F during application and drying period.
2. Stuc-O-Flex should never be used on horizontal surfaces, surfaces shall have a minimum 4 in 12 pitch. Exceptions: ceilings, breeze-ways, etc.
3. Product performance is directly related to substrate integrity.
4. Stuc-O-Flex is not for below grade applications.
5. Never coat Stuc-O-Flex Finishes with solvent based materials.

**Container:**

60 pounds net weight / 5-gallon pail

**Surface Preparation:**

Substrate must be clean, dry, above freezing and free from efflorescence and all loose or foreign materials prior to application including rust, mildew, dust, dirt and oils. Remove any and all loose surface materials using high pressure wash (>3000 psi), sandblast or mechanical bristle brush.

**Application:**

Apply only to clean, dry and prepared surfaces. Application of Stuc-O-Flex varies greatly depending on the desired texture. Usually, the finish is troweled on and textured with plastic floats. Stuc-O-Flex can also be sprayed on with proper equipment (see spray application instructions). Minimum thickness shall be 1/16 inch without voids. Apply in color and texture as approved by Architect and/or Client with sufficient manpower and equipment to ensure a continuous operation without cold joints, scaffolding lines, etc. Work from a wet edge or break to prevent cold joints. Avoid application of different batches side by side (always box pails from different batch numbers). Always check color for proper match prior to application. 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 ensure proper drying.

Stuc-O-Flex International can not be held responsible for color variations from batch to batch, fading resulting from natural causes, substrate or application deficiencies.

**Manufacturer:**

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## STUC-O-FLEX ELASTOMERIC ACRYLIC FINISHES

### PRODUCT FEATURES & BENEFITS:

1. Stuc-O-Flex is a water-based material - easy clean up while wet with soap and water.
2. Stuc-O-Flex is safe, similar to water based latex paint.
3. Stuc-O-Flex is class "A" fire rated - will not propagate fire.
4. Stuc-O-Flex is comprised of "100% Acrylic" polymer for best exterior performance.
5. Stuc-O-Flex is manufactured in the United States of America.
6. Easy to apply by trowel or appropriate spray equipment.
7. Stuc-O-Flex is available in twenty (20) standard colors; over 10,000 computer generated custom colors.
8. Uses include renovation, repair and new construction; either interior or exterior.
9. Washability - Cured Stuc-O-Flex can be cleaned with hot water and soap or appropriate pressure washing.
10. Stuc-O-Flex is chemical resistant against mineral spirits, paint thinner, muriatic acid, etc...
11. Stuc-O-Flex can be painted with an acrylic latex paint or Stuc-O-Flex Renew at a later point in time to change the color if desired. Also, designs can be painted over Stuc-O-Flex after drying.
12. Applications to most common construction surfaces.
13. Provides a noise reduction coefficient reducing decibel levels when applied to interior walls including restaurants, movie theaters, shopping centers, office buildings, etc.
14. Minimum maintenance required after installation - Wash walls with appropriate power washer or by hand as required.
15. Outstanding color consistency & color retention.
16. Competitively priced.
17. Unlimited texture opportunities in four different sized aggregate choices.
18. Outstanding quality control and consistency in Stuc-O-Flex production.
19. Building code compliant.
20. Stuc-O-Flex is a breathable membrane- 10 -14 perms average.  
(H<sub>2</sub>O vapor transmission)
21. Stuc-O-Flex can be either field applied or prefabricated (panelized).
22. Dries in 12 - 24 hours, complete cure in approximately 2 weeks.
23. Provides outstanding hiding power against shadowing from substrate below.

24. Outstanding resistance to environmental impact: freeze - thaw cycles, salt spray, wind driven rain, abrasion & chemical resistance, color retention, UV radiation.
25. A preservative system in the Stuc-O-Flex Finish resists mold & mildew growth.
26. VOC Compliance – less than 100g/l
27. No Formaldehyde

## COMPARISON TO COMPETITIVE PRODUCTS

1. Up to 33% more acrylic polymer solids than competitive acrylic finishes.
  2. Approximately 140 Sq. Ft. per pail coverage for sand finish texture.  
20% - 35% more completed wall surface than competitive products - per pail.
  3. Stuc-O-Flex is comprised from calcium / marble aggregates, which are pure white and free of foreign materials. Most competitive finishes are manufactured with silica sand that may contain iron, causing rust on exterior walls.
  4. Our finish is the industries First Breathable Elastomeric Acrylic Finish;
  5. Stuc-O-Flex finish provides 105% elongation (stretchability).
  6. Others make claims of elasticity but have no reports using the same test methods, and ultimately, do not have the same performance.
  7. Some manufacturers use polymers which are externally plasticized to enhance flexibility. Unfortunately, this plasticizer leaches out very rapidly causing the modified product to become brittle.
  8. Geometric shape of aggregates in Stuc-O-Flex Finish is like square boxes - as opposed to round silica (in competitors) - combined with higher polymer solids lend itself to a more resilient material extending anticipated service life.
  9. High acrylic polymer content enhances abilities for spray application.
  10. Outstanding resistance to dirt pick-up.
  11. Stuc-O-Flex offers fully warranted assemblies including a ten year drainage warranty on "WaterWay Rainscreen Drainage Systems".
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