

Stuc-O-Flex Elastomeric Acrylic Finish



Description:

Stuc-O-Flex is a highly resilient 100% Acrylic Polymer compound that looks and feels like traditional stucco. Its thermo-plastic and elastomeric nature allows building movement while maximizing resistance against cracks. It can be applied over traditional and one coat stucco, prepared concrete, masonry, brick, primed metal, EIFS, and Fiber-Cement sheathings. Stuc-O-Flex is available in virtually any color desired.

Stuc-O-Flex comes in 4 different textures; Fine, Sand, Modified, and Putz. Aggregate size in each finish as well as application method determines the texture and coverage of each product. See Colors and Textures for samples.

Color:

20 standard colors, see color chart for specifics. Special colors available upon request, virtually no limit to selection; see color chart for special color formulation policy.

Use:

Stuc-O-Flex is used as a weathering membrane, finishing texture and color coat on the Waterway Drainable Stucco Assembly, as well as stucco, EIFS, direct-applied systems, and a wide variety of surfaces including metal, cementitious sheathings, block, brick, masonry, etc. Stuc-O-Flex can also be used over a variety of other common substrate materials.

Mixing:

Mix at a low speed with paddle type mixer and 1/2" drill to assure uniform consistency prior to use. 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 8 -16 ounces of water per pail.

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	127.9 PSF
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 125 - 150 square feet per pail for sand finish @ a nominal 1/16 inch. 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.

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 very 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.
3. Product performance is directly related to substrate integrity.
4. Stuc-O-Flex is a vertical wall coating. Small areas can be sloped; those surfaces shall be minimum 4 in 12 pitch.

Never cover Stuc-O-Flex finish with solvent based materials.

Never use below grade or on horizontal surfaces. (exceptions – ceilings, soffits, etc.)

Container:

60 pounds net weight / 5-gallon pail

Surface Preparation:

Substrate must be clean, dry, above freezing and free from all loose or foreign materials prior to application, including rust, mildew, dust, dirt and oils. Remove 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. 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:

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.
(H₂O 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.

COMPARISON TO COMPETITIVE PRODUCTS

1. Up to 33% more acrylic polymer solids than competitive acrylic finishes.
 2. Approximately 150 Sq. Ft. per pail coverage for sand finish texture.
20% - 35% more completed wall surface than competitors per pail.
 3. Stuc-O-Flex is made from calcium and marble aggregates, which are pure white and free of foreign materials. Many 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 Warranty assemblies including a Ten Year Drainage Warranty on "WaterWay" Rainscreen Drainage Systems.
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