

StoCoat[®] Acryl

80201 StoCoat[®] Acryl



Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT
Tensile Strength psi (MPa)	ASTM D-412		585 (4.1)
Elongation at Break (%)	ASTM D-412		14.1
Flexibility, Mandrel Bend % Elongation	ASTM D-522	at 70°F (21°C) at -14°F (-26°C)	> 32 (no crack) > 32 (no crack)
Moisture Resistance	ASTM D-2247	14 day exposure	No Deterioration
Mold Resistance	ASTM D-3273	90 day exposure	No Mold Growth 85% Relative Humidity
Adhesion to Concrete psi (MPa)	ASTM D-4541		300 (2.07)
Water Vapor Permeability (ng/Pa·s·m ²)	ASTM E-96 Wet-cup method	1 coat	46 (2637)
Carbon Dioxide Diffusion Resistance Coefficient	EN-1062		1,160,000
Carbon Dioxide Diffusion Resistance (m)	EN-1062		174
VOC (g/L)	This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for architectural coatings. VOC less than 50 g/L.		
Solids Content by Volume (%)			55*

Typical values for material cured at 73F (23C) and 50% R.H.
*Percent Solids by volume is approximated from change in thickness from wet application to measured dry film

StoCoat Acryl is an acrylic-based interior and exterior coating used over prepared concrete, masonry, plaster/stucco and EIFS coatings.

Coverage

200-270 ft² per gallon (4.9-6.5 m² per liter) per coat, applied at 5-7 mils (0.13 to 0.18 mm), wet.
940-1270 ft² (85-115 m²) per pail for a single coat, applied at 5-7 mils (0.13 to 0.18 mm), wet.
470-635 ft² (44-58 m²) per pail for two coats, applied at 5-7 mils (0.13 to 0.18 mm) per coat, wet.

Packaging

5 gallon pail (19 L)

Color

800 Standard Color or Custom Color Match

Shelf Life

12 months, if properly stored and sealed.

Storage

Protect from extreme heat [90°F (32°C)], freezing, and direct sunlight.

Features Benefits

1 Acrylic Based	Excellent adhesion; weather-resistant
2 Vapor Permeable	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
3 UV Resistant	Excellent color retention
4 Water-based	Safe, non-toxic; cleans up with water
5 Low VOC	Safe for workers and the environment

Surface Preparation

Concrete and masonry surfaces: Surfaces must be free of all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed by water blasting, sand-blasting or mechanical wire brushing and

repaired. Avoid application over irregular surfaces. Resurface, patch or level surfaces to required tolerance and smoothness with appropriate Sto leveling materials. Fill surface voids. Refer to ASTM D-4258 and ASTM D-4261 for complete details on methods of preparing cementitious substrates for coatings.

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Surface Preparation cont.

Exterior Insulation and Finish Systems (EIFS) StoTherm®:

Surface must be clean, sound, and free of all bond-inhibiting materials, including dirt and efflorescence.

Gypsum wallboard surfaces:

Wallboard must be taped and fasteners spotted with joint compound. Refer to ASTM C-840 and gypsum wallboard manufacturer's literature. Surface must be free of dust, dirt and other bond inhibiting materials.

Mixing

Mix with a clean, rust-free electric drill and paddle.

Application

Apply only to sound and clean, dry, properly prepared, frost-free surfaces. Apply StoCoat Acryl with brush, roller, or proper spray equipment.

Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions.

ALWAYS check color for proper match. If color does not match, STOP-call your Sto representative. For best results always prime cementitious substrates. Apply coating in a continuous application, always working from a wet edge or architectural break to eliminate cold joints. Minor shade variations may occur from batch to batch (refer to batch no. on pail). Avoid installing separate batches side-by-side and avoid application in direct sunlight. Avoid installing new finish adjacent to weathered or aged finish. Sto Corp. will not be responsible for shade or color variation from batch to batch, variation caused by application or substrate deficiencies, or fading resulting from natural causes such as weather. See Tech Hotline Nos. 0694-C, 0893-EC and 1202-CF for helpful tips on prevention of color problems. Protect installed product from rain, freezing, and continuous high humidity until completely

dry. EIFS: select colors with a lightness value of 20 or greater.

Concrete and Stucco substrates:

Apply Sto Hot Prime in one coat by brush, roller, or spray to a thickness of 5 wet mils.

Concrete Masonry substrates:

Apply Sto Primer Smooth in one coat by brush, roller, or spray to a thickness of 6-8 wet mils.

Allow primer to dry completely before applying finish coating. Select one of the options below, depending on type construction, weather exposure and required level of performance.

Decorative and Protective finish coating (one coat application):

Apply one coat, 5-7 wet mils, StoCoat Acryl to primed surface.

Weatherproofing (two coat application):

Apply one coat, 5-7 wet mils, StoCoat Acryl to primed surface. Allow first coat, StoCoat Acryl to dry, and apply a second coat, 5-7 wet mils, StoCoatAcryl.

Curing/Drying

Dries within 24 hours under normal [70°F (21°C), 50% RH] conditions. Drying time varies with temperature/humidity and surface conditions.

Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Health And Safety

Health Precautions

Product is water-based. As with any chemical construction product, exercise care when handling.

Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

First Aid

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY PROBLEMS:

Remove affected person to fresh air immediately and contact a physician.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

Spills

Collect with suitable absorbent material such as cotton rags.

Disposal

Dispose of in accordance with local, state or federal regulations.

Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Material Safety Data Sheet on www.stocorp.com for further health and safety information.

LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp.

Refer to Sto Specifications for more complete information on proper use and handling of this product.

Limitations

- Protect installed materials from rain, freezing, and continuous high humidity until completely dry.
- Apply when ambient and surface temperatures are 40°F (4°C) and rising.
- Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.
- Do not apply in freezing conditions or during precipitation
- Do not overcoat with solvent-based materials.
- Do not use below grade, on horizontal surfaces, or in areas of ponding water

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Attention

This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME.** For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com.