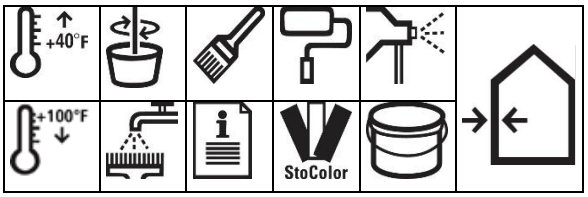
Building with conscience.

PRODUCT BULLETIN

StoColor® Acryl Plus

Flat exterior wall coating

Product Number: 80647



PRODUCT DESCRIPTION

StoColor Acryl Plus is an acrylic-based, high performance decorative, and protective wall coating that protects against weather, salts, and environmental pollutants. Use it for protecting prepared vertical above grade concrete, concrete masonry, EIFS, stucco, StoCast Brick, StoCast Wood, and previously painted wall surfaces.

FEATURES	BENEFITS
Acrylic Based	Excellent adhesion; weather-resistant; promotes color stability
Weather/Pollution resistant	Repels water; increases service life of substrate
Vapor permeable	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
Easily Sprayable	Increases job-site productivity
Cleans up with water	Tools can be reused; no hazardous solvents needed; environmentally friendly
Low VOC	Safe for workers and the environment
Dries quicky after rain and dew formation	Inhibits mold, mildew, and algae growth
Outstanding durability	Excellent resistance to wind-driven rain and harsh weather conditions
Resistant to salt spray	Protects exterior facades in coastal environments

COVERAGE

620-1020 ft² (58-95m²) per pail per coat. Coverage will vary depending on substrate condition and texture, application technique, waste factor, final film thickness, and other variables that may exist.

Packaging

5-gallon pail (19L)

Color

Sto Color Collections or custom color match

Sheen

Flat (sheen may vary slightly with colorant load and from roller versus spray application)

Shelf Life

18 months, if properly stored in original unopened packaging.

Storage

Store in a dry area, between 50°F (10°C) and 85°F (29°C). Protect from direct sunlight, extreme heat [90°F (32°C)] and freezing.

SURFACE PREPARATION

All surfaces must be structurally sound, clean, dry, and free of frost and surface contamination such as dust, dirt, salts, grease, oils, rust, efflorescence, mold, algae, mildew, or any other condition that may affect adhesion. Use appropriate repair methods for the substrate to repair pitting, spalls, cracks, peeling, blistering, delamination, weak surface conditions such as laitance, water damage, or other defects that may exist. If pressure washing, follow necessary safety precautions and adjust pressure to avoid damage to the underlying substrate. For mold, algae, and mildew removal, treat surfaces with a compatible commercial mildew removal and/or wash product, carefully following manufacturer's application and safety directions for use and handling, including any special requirements when used in preparation for application of paints or coatings.

MIXING

Use at a preconditioned temperature of 70 ± 5°F (21 ± 3°C). Mix undiluted product for 3 minutes using a slow-speed drill and a mixing paddle. Mix thoroughly to a uniform consistency. DO NOT THIN OR DILUTE.

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APPLICATION

Apply only to sound and clean, dry, properly prepared, frost-free surfaces. Do not apply over damp surfaces or during rain, hail, or snow events or if rain, hail, or snow is imminent. For best results apply in two uniform coats by brush, roller or with proper spray equipment to prepared substrate or primed substrate at 6-8 mils WFT to achieve minimum 3.2 mils DFT per coat. For 1 coat applications apply appropriate primer to the prepared surface. Refer to Sto primer product bulletin. Apply coating in a continuous application, always working from a wet edge or architectural break to eliminate cold joints. Back roll open texture surfaces such as concrete masonry. Uncoated concrete masonry generally requires three coats (1 coat of StoPrime Block Surfacer HP and 2 coats of StoColor Acryl Plus Flat). Allow sufficient time for drying between coats.

Sto Primers

Substrate	Min. Age	Primer	WFT(DFT)
Concrete	7d	StoPrime Hot	5 (2.1)
Stucco	7d	StoPrime Hot	5 (2.1)
CMU	28d	StoPrime Block Surfacer HP	14-16 (7.3-8.3)
EIFS	N/A	StoPrime Sand	4-6 (1.6-2.3)
StoCast Wood	N/A	None	N/A
Painted Surface	N/A	Depends on paint & its condition. Test to determine best primer	

Note: Selection of proper primer can vary depending on actual substrate conditions such as pH, absorption, texture, and desired aesthetic look. In some cases, a primer may not be necessary. Evaluate surface condition and adhesion to surface.

IMPORTANT

ALWAYS check color for proper match. If color does not match, STOP-call your Sto representative. Avoid installing separate batches side-by-side and avoid application in direct sunlight. See Tech Hotline Nos. 0694-C, 0893-EC and 1202-CF for helpful tips on prevention of color problems. Prepare a job site mock-up of the final coating assembly to verify aesthetics and adhesion to properly prepared/primed surfaces as specified by design professional or owner's quality assurance agent.

Curing/Drying

Product is dry to touch in 1-2 hours and to recoat within 3-4 hours under normal drying conditions [70°F (21°C),50% RH]. Drying time varies with temperature/humidity and surface conditions. Protect installed product from rain, freezing, and continuous high humidity until completely dry.

Clean Up

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

Maintenance

Repair cracks or other damage to façade and recoat at intervals as needed to maintain fresh appearance. Repair balconies, scuppers, flashing and similar water shedding elements that lack drip edges or that fail to shed water from the façade surface. Prevent or repair leaks from roofs, parapets, windows, sealants, or other components of construction, and prevent accumulation of water inside the wall assembly during and after construction. Water accumulation behind the coating can cause damage to the coating and/or underlying construction.

LIMITATIONS

- Apply when ambient and surface temperatures are 40°F (4°C) and rising, and below 100°F (38°C).
- Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.
- Do not use below grade or in areas subjected to hydrostatic pressure, water immersion, ponding, or puddling.
- Do not overcoat with solvent-based materials.
- Efflorescence of Portland cement-based substrates such as concrete, stucco, and concrete masonry sometimes causes staining or discoloration on the surface of applied coatings. Efflorescence is neither caused nor prevented by the Sto coating.
- Not for use on wood or metal surfaces.

LIMITED WARRANTY

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

HEALTH & SAFETY

Refer to Safety Data Sheet at www.stocorp.com

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TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT*
Salt Spray	ASTM B117	300 hours	No corrosion, cracking, or delamination after 1000 hours
Tensile Strength Psi (MPa)	ASTM D 2370	2 coats at 7 WFT each	886 (6.11)
Flexibility, Mandrel Bend	ASTM D522	at 70°F (21°C) at 40°F (21°C)	No cracking No cracking
Mold Resistance	ASTM D3273	28-day exposure	Rating = 10, no growth at 90 days
Efflorescence Blocking	ASTM D7072	48 hours in humidity cabinet at 100°F (39°C) and 100% RH	No efflorescence observed
Adhesion to Concrete psi (MPa)	ASTM D7234	> 50 (0.344)	347 (2.39)
Resistance to Wind Driven Rain	ASTM D6904	No visible water leaks after 24-hour water spray with 98 mph (158 km/h) equivalent wind speed	No visible water leaks (AVG weight gain): 2 coats (0.30g) 1 coat over StoPrime (0.50g) 1 coat over StoPrime Hot (0.40g) 1 coat over StoPrime Block Surfacer HP (0.47g)
Surface Burning	ASTM E84	Flame Spread ≤ 25 Smoke Developed: ≤ 450	FS: 10 SD: 0
Water Vapor Permeability Perms (ng/Pa•s•m²)	ASTM D1653 Wet-cup method	Unprimed	1 coat: 33 (1888) 2 coats: 25 (1430)
Water Vapor Permeability (with primer) Perms (ng/Pa•s•m²)	ASTM D1653 Wet-cup method	StoPrime	1 topcoat: 33 (1888) 2 topcoats: 36 (2059)
		StoPrime Hot	1 topcoat: 23 (1316) 2 topcoats: 25 (1430)
		StoPrime Block Surfacer HP	1 topcoat: 22 (1258) 2 topcoats: 24 (1373)
Freeze Thaw Resistance	ASTM E2485	10 cycles	No deleterious effects after 10 cycles
Accelerated Weathering	ASTM G154	2000 hours	No deleterious effects after 4000 hours
% Solids by Volume	Calculation	N/A	45%
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.		

* Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.

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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 EXPRESSED 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