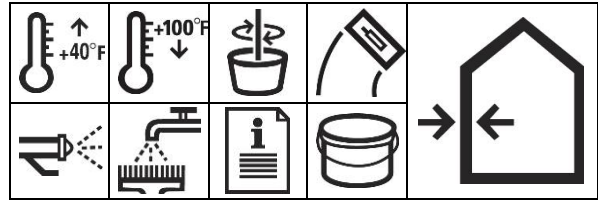


Stolit[®] Milano Acrylic Finish

81341 Stolit[®] Milano Acrylic Finish



Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Water Vapor Transmission	ASTM E 96, Method B, wet cup	Vapor permeable: > 10 perms (574 ng/(Pa·s·m ²))	> 30 perms (1740 ng/(Pa·s·m ²))
Salt Spray	ASTM B 117	300 hours exposure	No deleterious effects ¹
Accelerated Weathering	ASTM G 154	2000 hours exposure	No deleterious effects ¹
Accelerated Weathering	ASTM G 155	2000 hours exposure	No deleterious effects ¹ when viewed under 5X magnification
Freeze Thaw Resistance	ASTM E 2485, Method B	10 cycles	No deleterious effects ¹ when viewed under 5X magnification
Adhesion	ASTM C 297 ASTM D 4541	> 15 psi (103 kPa) to EIFS base coat > 50 psi (345 kPa) to unprimed stucco	> 20 psi (138 kPa) > 250 psi (1.72 MPa)
Surface Burning	ASTM E 84	Flame Spread: ≤ 25 Smoke Developed: ≤ 450	Flame Spread: 15 Smoke Developed: 15 Class A Building Material
Mar Resistance	ASTM D 5178	Load when coating mars	150 grams (uncoated) 150 grams w StoColor Acryl Plus 250 grams w Sto Clear Coat Sealer
VOC	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.		

1. Deleterious effects: checking, cracking, crazing, erosion, rusting, blistering, peeling, or other characteristics such as delamination to substrate or inter-coat delamination, that may affect performance as a wall cladding.

Features Benefits

1 Ultra-smooth, smooth, or light texture	Wide variety of decorative effects can be achieved
2 Vapor Permeable	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
3 Ready Mixed	Ready to use; no additives needed
4 Integral Color	Lasting uniform color
5 Moisture Resistant	Repels water; resists wind driven rain
6 Water-based	Safe, non-toxic, cleans up with water
7 Low VOC	Meets EPA and South Coast Air Quality Management District Requirements; eligible for LEED credits

Surface Preparation

All surfaces must be fully cured, structurally sound and free of weak or damaged surface conditions such as laitance or spalls. Surfaces must be clean, dry, frost-free, and free of any bond-inhibiting materials such as dust, dirt, oil, form release, algae, mildew, salts, efflorescence, or any other surface contamination. All surfaces, once prepared and leveled, must be primed with 80804 Sto Primer Smooth or 80805 Sto Hot Prime before application of Stolit Milano. Refer to Application section.

Concrete, Concrete Masonry, and Portland Cement Plaster: Loose or damaged material must be removed by water-blasting, sandblasting or mechanical wire brushing and repaired. Avoid application over irregular or unprepared surfaces or surfaces that are not

fully cured. For concrete and concrete masonry surfaces, patch or level to required tolerance and smoothness with Sto Leveler or StoPowerwall Stucco applied in multiple coats to a maximum thickness of 5/8th inch (16 mm). Skim coat with at least one application of Sto cementitious base coat to achieve a smooth surface with minimal trowel marks and ridges, then finish as described under Application.

For best results the addition of one layer of base coat reinforced with Sto Mesh for crack resistance is recommended prior to the application of the skim coat.

IMPORTANT: check surface alkalinity to ensure pH < 10 before application of primer, or wait 28 days for full cure of cementitious levelers and/or portland cement plaster

Stolit[®] Milano is a versatile ready-mixed, acrylic-based exterior or interior decorative and protective wall finish. It is applied as a light texture, smooth, or ultra-smooth finish. Top coats such as StoColor Acryl Plus and Sto Clear Coat Sealer may be applied to create a variety of decorative effects. It is intended for use over properly prepared vertical above grade concrete, concrete masonry, portland cement plaster, and StoTherm[®] ci Systems.

Coverage per Pail
120-130 ft² (11-12 m²) at 1/16 inch (1.6 mm) thick over smooth surfaces applied in one or two coats.

Must be applied in 2 coats with maximum thickness per coat 1/16 inch (1.6 mm). Minimum required total thickness is 1/16 inch (1.6 mm).

Coverage will vary depending on application technique, surface conditions, number of coats applied, and desired effect. Always prepare a mock-up wall of sufficient size to verify coverage.

Packaging
5 gal pail (19L).

Shelf Life
12 months, if properly sealed and stored.

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

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Surface Preparation cont.

surfaces. Alternatively, apply Sto Hot Prime minimum 48 hours after moist cure of portland cement plaster surfaces and allow minimum 7 day age before applying finish.

Refer to ASTM D-4258 and ASTM D-4261 for complete details on methods of preparing cementitious substrates for coatings.

StoTherm® ci Systems: skim coat the mesh reinforced base coat with a second base coat layer to achieve a smooth surface with minimal trowel marks and ridges, then finish as described under Application.

Gypsum Wallboard: joints must be taped, and fasteners spotted with joint compound, then sanded to a minimum Level 3 or smoother finish. Refer to ASTM C-840 and gypsum wallboard manufacturer's literature.

Mixing

Mix with a clean, rust-free electric drill and paddle. A small amount of clean water may be added to aid workability. Limit addition of water to amount needed to achieve the finish texture.

Application

Apply only in well-ventilated areas to structurally sound, clean, dry, properly prepared and primed, frost-free surfaces. Apply minimum two coats to achieve a total minimum thickness of 1/16 inch (1.6 mm). Maximum thickness per coat is 1/16 inch (1.6 mm).

IMPORTANT! Always construct a mock-up under actual conditions of use to verify proper surface preparation, number of coats required, and approval of finished look by the appropriate authority. Always apply Stolit Milano with a stainless steel trowel and work to a wet edge. Avoid over-troweling which can burnish the finish. Typical applications are as follows, though final technique may vary somewhat to achieve the desired effect:

Light Texture – 3 coats Stolit Milano

1. Apply Sto primer uniformly in an even coat by spray or roller and allow to dry.
2. Apply a uniform coat of Stolit Milano by trowel and allow to dry.
3. Apply a second uniform coat of Stolit Milano by trowel and allow to dry.
4. Apply light (maximum 1/16 inch [1.6 mm] thick) texture of Stolit Milano by trowel to achieve the desired texture.

Smooth – 2 coats Stolit Milano with optional top coat

1. Sand the base coat to remove trowel lines and other surface imperfections.
2. Remove surface dust*.
3. Apply Sto primer uniformly in an even coat by spray or roller and allow to dry.
4. Apply a uniform coat of Stolit Milano by trowel and allow to dry.
5. Apply a second uniform coat of Stolit Milano by trowel and allow to dry.

Top Coats:

- For interior finish: top coat with two thin coats of Sto Clear Coat Sealer
- For added abrasion resistance (recommended at ground floors, balconies, and other areas that may be subject to scuffing or marring): top coat with two thin coats of Sto Clear Coat Sealer.
- For Lotus-Effect® technology: top coat with StoColor Lotusan.
- For dark colors: top coat with StoColor Acryl Plus.

Refer to appropriate Product Bulletins for top coats.

Ultra-Smooth Metal Effect – 2 coats Stolit Milano (each coat sanded) limited to use over StoTherm ci Systems

1. Sand the second application of base coat (skim coat) to remove trowel lines and other surface imperfections.
2. Remove surface dust*.
3. Apply Sto primer uniformly in an even coat by spray or roller and allow to dry.
4. Apply a uniform coat of Stolit Milano by trowel and allow to dry.
5. Sand and remove dust*.
6. Apply a second uniform coat of Stolit Milano by trowel, allow to dry, and sand the entire wall area.* Note: Depending on the level of smoothness desired and preparation of the substrate, more coats and sanding may be required.
7. Spray apply Sto Coat Acryl Plus in the desired color, if additional mar or abrasion resistance is required, then spray apply Sto Clear Coat Sealer in two thin coats as optional.

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Application cont.

***IMPORTANT:** When sanding use 120-220 grit sand paper and always remove dust with a fine hair broom or oil-free compressed air before applying the next layer of coating. Always wear appropriate safety attire such as safety goggles and dust respirator when sanding surfaces.

Spray: Apply Stolit Milano with a hand-held gravity feed hopper-type sprayer, texture spray pump machine, or other appropriate equipment such as Sto's M-8 Spray Pump. Apply uniformly to ensure full, even coverage of the surface. Airless spray equipment is NOT recommended.

IMPORTANT: 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.

Curing/Drying

Stolit Milano dries within 24 hours under normal drying conditions [70°F (21°C), 50% RH]. Drying time varies with temperature, humidity and surface conditions. Thicker textures or application during damp and/or cool weather require extended drying time and protection. 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.

Limitations

- Use Stolit Milano only when surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.
- After priming, minimum 2 coats Stolit Milano are required with a total minimum thickness of 1/16 inch (1.6 mm). Maximum thickness per coat is 1/16 inch (1.6 mm).
- Stolit Milano is NOT an abrasion or mar resistant finish. For added mar resistance top coat with Sto Clear Coat Sealer.
- Not available in dark colors. For dark colors top coat with StoColor Acryl Plus.
- For StoTherm ci Systems select colors with a lightness value of 20 or greater. Refer to Sto Tech Hotline No. 0893- EC (Fading in EIFS and Architectural Coatings) when considering dark, intense colors and colors requiring organic pigments.
- Light texture, smooth and ultra-smooth finishes are by nature less forgiving than heavier textured finishes in their ability to hide surface imperfections or cracks in the substrate. Exercise good judgment and care in selection of finish, preparation of substrates, and in developing full scale mock-ups to verify final appearance. Certain applications such as metal effect over stucco are NOT recommended.
- Stolit Milano should not be used on weather-exposed horizontal, below grade or on surfaces subject to water immersion.
- Sloped surfaces: Refer to Sto details.

Health And Safety

WARNING!

Causes eye and skin irritation.

Precautionary Statement

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes.

Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Store locked up..

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 Safety Data Sheet for further health and safety information.

Safety Data Sheet (SDS) is available for download at www.stocorp.com or by calling 1-800-221-2397.

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.

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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.