**Stolit® Milano Acrylic Finish**

81341 Stolit® Milano Acrylic Finish

### Technical Data

<table>
<thead>
<tr>
<th>REPORT</th>
<th>TEST METHOD</th>
<th>TEST CRITERIA</th>
<th>TEST RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Vapor</td>
<td>ASTM E 96,</td>
<td>Vapor permeable: &gt; 10 perms (574 ng/(Pa·s·m²))</td>
<td>&gt; 30 perms (1740 ng/(Pa·s·m²))</td>
</tr>
<tr>
<td>Transmission</td>
<td>Method B, wet cup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salt Spray</td>
<td>ASTM B 117</td>
<td>300 hours exposure</td>
<td>No deleterious effects¹</td>
</tr>
<tr>
<td>Accelerated</td>
<td>ASTM G 154</td>
<td>2000 hours exposure</td>
<td>No deleterious effects¹</td>
</tr>
<tr>
<td>Weathering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freeze Thaw</td>
<td>ASTM E 2485, Method B</td>
<td>10 cycles</td>
<td>No deleterious effects¹</td>
</tr>
<tr>
<td>Resistance</td>
<td>ASTM C 297</td>
<td>&gt; 15 psi (103 kPa) to EIFS base coat</td>
<td>&gt; 20 psi (138 kPa)</td>
</tr>
<tr>
<td>Adhesion</td>
<td>ASTM D 4541</td>
<td>&gt; 50 psi (345 kPa) to unprimed stucco</td>
<td>&gt; 250 psi (1.72 MPa)</td>
</tr>
<tr>
<td>Surface Burning</td>
<td>ASTM E 84</td>
<td>Flame Spread: ≤ 25 Smoke Developed: ≤ 450</td>
<td>Flame Spread: 15 Smoke Developed: 15 Class A Building Material</td>
</tr>
<tr>
<td>Mar Resistance</td>
<td>ASTM D 5178</td>
<td>Load when coating mar</td>
<td>150 grams (uncoated) 150 grams w StoColor Acryl Plus 250 grams w Sto Clear Coat Sealer</td>
</tr>
<tr>
<td>VOC</td>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

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

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

### 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:** Loosely 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.

**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.

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® cl Systems.
Stolit® Milano Acrylic Finish

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-Effekt® 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.

**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 Acrylic 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.