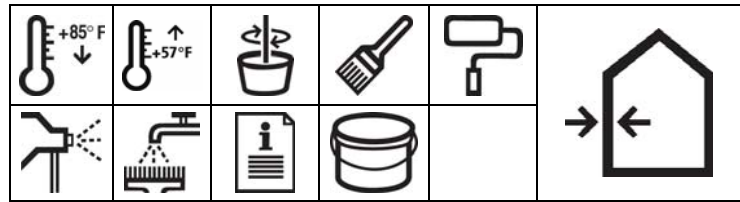


StoCoat[®] Metallic

81199 StoCoat[®] Metallic



Technical Data			
REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT
Accelerated Weathering	ASTM G-154	2000 hours	No deleterious effects @ 2000 hours
VOC (g/L)	This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for faux finishes, and contains VOC of less than 180 g/L.		

StoCoat[®] Metallic is a water based metallic coating that incorporates mica, metallic particles, and pigments to create an authentic metallic look over prepared vertical above-grade substrates, and textured finishes

Features	Benefits
1 Metallic Look	Get the metallic look while retaining all the advantages of StoTherm EIFS NExT. Can also be used over most paintable, properly primed interior or exterior surfaces.
2 Single Cladding Source	StoTherm EIFS can be used as one integrated system for your building, yet achieve a variety of looks.
3 UV Resistant	Excellent color retention
4 Water Based	Safe, non-toxic; cleans up with water

Coverage
750-940 ft² (69.6-87.2 m²) / per 5gp (2 coats at 3 wet mils per coat, for a total of 6 wet mils).

Packaging
5 gallon pail (19 L).

Color
StoCoat Metallic comes in 10 standard colors. Custom colors are also available.

Available Colors	
Bronze Acadia: 81199-301	Acapulco Copper: 81199-304
English Pewter: 81199-306	Sierra Oro: 81199-309
Copper Rio: 81199-302	Ankara Gold: 81199-305
Sudbury Platinum: 81199-307	Tahitian Pearl: 81199-310
Saharan Sands: 81199-303	Custom Colors Available
Parisian Bronze: 81199-308	

Shelf Life
One year if properly stored and sealed.

Surface Preparation	
<p>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.</p>	<p>Exterior Insulation and Finish Systems (EIFS) StoTherm[®]: Surface must be clean, sound, and free of all bond-inhibiting materials, including dirt and efflorescence.</p> <p>Gypsum wallboard surfaces: Wallboard must be taped and fasteners spotted with joint compound to achieve a Level 5 finish. Refer to ASTM C-840 and gypsum wallboard manufacturer's literature. Surface must be free of dust, dirt and other bond inhibiting materials.</p>

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

Mixing
Stir with a clean, rust-free mixing paddle.

StoCoat Metallic Application

Application:
StoCoat Metallic coatings can be sprayed, rolled, or brushed onto most paintable, properly primed, exterior or interior surfaces which can include concrete and masonry, previously painted surfaces, textured finishes, gypsum based surfaces, ceilings, trim, columns, paintable wall coverings, furniture, and doors. A minimum of two thin coats applied at 3 wet mils each are required for most colors.

StoCoat[®] Metallic

StoCoat Metallic Application cont.

Spraying: Spraying is the highly recommended application method to achieve the best metallic look. If thinning is needed, up to 72 fluid ounces of water per 5gp may be added (or 16 fluid ounces per gallon). Thin carefully, as over thinning of the coating will result in loss of hide and a reduction of the desired appearance. Use an HVLP gun or a conventional cup gun with the fluid and air supply from a pressure pot and compressor. Air pressure at the HVLP spray gun needs to be approximately 30 psi, with greater pressures at the tank, approximately 60 psi. Examples: Binks-Mach 1 HVLP, with a 94-nozzle set up (0.55 or 1.4mm diameter fluid tip and a 90P air nozzle). The settings for this equipment were: Fluid Pressure-25psi and Air Pressure-45psi. Binks- 2001 Conventional, with a 66SS air nozzle set up (0.70 or 1.8 fluid tips and a 66SD air nozzle). The settings for this equipment were: Fluid Pressure-30 psi and Air Pressure-60 psi.

Use a NIOSH approved respirator when spraying. Provide adequate ventilation. Note: Do not use turbine-type "air compressors" to power the HVLP spray gun and do not use airless spray systems.

Rolling: Use a high quality ½" synthetic nap roller. To roll StoCoat Metallic coatings, Sto recommends using StoMetallic Extender for Rolling (81201) for best results. The Extender for Rolling increases the open time of the product, and helps to reduce roller overlap marks. StoMetallic Extender for Rolling should be added at a dosage of 16 oz per 1 gallon of StoCoat Metallic, or 75 oz per 5GP. The last step for a roller application should be to "back roll" the section to properly orient the metallic particles and eliminate seams.

Brushing: Use a high-quality brush recommended for water-based semi-gloss paints.

Dry Times – Recoat time is approximately ½ hour. Dry-to-touch time is approximately an hour. (Drying times were recorded at 70°F and 50%RH): Note: Lower temperature and/or higher humidity will lengthen the dry and cure times. Use of StoCoat Extender for Rolling will significantly increase dry times.

Taping – Use high quality, low-tack tape when taping surfaces that have been previously painted with StoCoat Metallic Coating. When coating over taped-off areas, please be advised that StoCoat Metallic paint will stretch when the tape is removed. Sto strongly recommends using a razor blade to cut along the tape edge to avoid delaminating StoCoat Metallic from the substrate.

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

StoTherm EIFS Application Process

This section is a description of the general steps required to create a metal panel look using StoCoat Metallic over a StoTherm EIF system. A full scale mock-up should be completed to verify the application and get acceptance from the owner / architect or appropriate authority.

Option 1: StoCoat Metallic over a textured finish

1. Install the complete StoTherm EIFS, including the desired textured finish (Maximum Reflectance Option). The finish should be tinted to match the StoCoat Metallic color that will be used.
2. Apply a minimum of two thin coats (3 wet mils per coat) of StoCoat Metallic Coating over the finish. Recoat time is approximately 0.5 hours under favorable (70° F and 50% RH) drying conditions.
3. Apply two thin coats of a clear coat sealer (3 wet mils per coat) for exterior and interior applications. The approved Sto clear coat sealers include: Sto Clear Coat Sealer (80512), StoMetallic Clear Coat Sealer Satin (81202), and StoMetallic Clear Coat Sealer Semi- gloss (81200). Refer to the Product Bulletins of these products for application instructions.

Note: Sto Primer Smooth (80804) tinted to the desired color is required if applying StoCoat Metallic over an existing textured finish or surface (i.e. not new construction).

Option 2: Metal Panel Look – Smooth with moderate reflectance

Notice: Replicating a smooth metal panel will require a highly skilled applicator. This process can have an installed cost significantly higher than EIFS with a standard textured finish, primarily due to the added labor involved.

Application Steps: These steps were used by a Sto Technician to achieve a smooth surface. A full scale mock-up should be constructed to see if these steps should be modified to achieve the look desired by the approving authority:

1. Apply EIFS base coat and mesh over EPS exactly like you would for a standard StoTherm EIFS. Make sure the mesh is fully embedded and not visible.
2. Apply a layer of Sto Flexible Skim Coat (80213) by trowel, and allow to dry. Spot sand as needed with 80 grit or 100 grit sand paper or screens. Repeat layers of Sto Flexible Skim Coat as needed to achieve the desired smoothness.
3. Apply Sto Primer Smooth (80804) by spraying or rolling in the appropriately tinted color over the Sto Flexible Skim Coat. The Sto Primer Smooth can then be sanded (100 grit sand paper or screens) to get the "smoothest" look possible.
4. Spray StoCoat Metallic coating over the sanded primer in minimum two thin coats (3 wet mils each). Recoat time is approx. 0.5 hours under favorable (70° F and 50% RH) drying conditions.
5. Apply two thin coats of a clear coat sealer (3 wet mils per coat) for exterior and interior applications. The approved Sto clear coat sealers include: Sto Clear Coat Sealer (80512), StoMetallic Clear Coat Sealer Satin (81202), and StoMetallic Clear Coat Sealer Semi-gloss (81200). Refer to the Product Bulletins of these products for application instructions.

Option 3: Metal Panel Look – Ultra Smooth and low reflectance

Notice: Replicating a smooth metal panel will require a highly skilled applicator. This process can have an installed cost significantly higher than EIFS with a standard textured finish, primarily due to the added labor involved.

StoCoat[®] Metallic

StoTherm EIFS Application Process cont.

Application Steps: These steps were used by a Sto Technician to achieve the smoothest surface possible. A full scale mock-up should be constructed to see if these steps should be modified to achieve the look desired by the approving authority:

1. Apply EIFS base coat and mesh over EPS exactly like you would for a standard StoTherm EIFS. Make sure the mesh is fully embedded and not visible.
2. Apply a thin layer of Sto Flexible Skim Coat (80213) by trowel, and allow to dry. Spot sand as Needed with 80 grit sand paper or screens.
3. Apply a 2nd thin layer of Sto Flexible Skim Coat by trowel, and allow to dry. Spot sand as needed with 80 grit sand paper or screens
4. Apply a thin layer of Sto Dispersion Adhesive (80829) by trowel, and allow to dry. Spot sand as Needed with 100 grit sand paper or screens.
5. Apply a 2nd thin layer of Sto Dispersion Adhesive by trowel, and allow to dry. Sand the surface as needed to achieve the desired smoothness with 100 grit sand paper or screens..
6. Apply Sto Primer Smooth (80804) by spraying or rolling in the appropriately tinted color over the Sto Dispersion Adhesive. Sto Primer Smooth can then be sanded if needed by using 100 grit sand paper or screens to get the "smoothest" look possible.
7. Spray StoCoat Metallic coating over the sanded primer in minimum two thin coats (3 wet mils each). Recoat time is approx. 0.5 hours under favorable (70° F and 50% RH) drying conditions.
8. Apply two thin coats of a clear coat sealer (3 wet mils per coat) for exterior and interior applications. The approved Sto clear coat sealers include: Sto Clear Coat Sealer (80512), StoMetallic Clear Coat Sealer Satin (81202), and StoMetallic Clear Coat Sealer Semi- gloss (81200). Refer to the Product Bulletins of these products for application instructions.

Limitations

- Ambient and surface temperatures must be above 58°F (14°C) and below 85°F (29°C) during application and drying period.
- Protect from rain and freezing until fully dry.
- Cool, damp conditions retard drying and may require extended periods of protection.
- Avoid application in direct sunlight.
- Avoid application if the surface temperature is less than 5° F (2.8° C) above the ambient dew point temperature.
- Do not apply into sealant joints and do not apply sealant over StoCoat Metallic.
- Apply in a continuous application, always working from a wet edge.
- Panel sizes should be limited to a maximum of 5ft to minimize the effects of substrate variations which can compromise aesthetics. Establish panel dimensions based on full scale mock-ups approved by the owner/architect or appropriate authority.
- Not for use on weather-exposed horizontal, low slope, or below grade surfaces, or on surfaces subject to water immersion or ponding water.
- Sloped surfaces: Refer to Sto details.
- Minor shade variations may occur from batch to batch (refer to batch number on pail). Avoid installing separate batches side-by-side.
- Final appearance is affected by application technique, surface conditions, drying conditions, and lighting. Install a trial area first in the intended end use conditions to be sure of desired results.
- Replicating a smooth metal panel will require a highly skilled applicator. This process can have an installed cost significantly higher than EIFS with a standard textured finish, primarily due to the added labor involved.
- A few colors may not be suitable for EIFS applications based on LRV (Light Reflectance Value, >20 is the Sto recommendation). Custom Colors also must be checked to ensure compliance with LRV limits. The LRV values are listed below for the 10 standard StoCoat Metallic colors:
Bronze Acadia (21)
English Pewter (31)
Copper Rio (13)
Sudbury Platinum (68)
Saharan Sands (59)
Parisian Bronze (10)
Acapulco Copper (27)
Sierra Oro (27)
Ankara Gold (44)
Tahitian Pearl (81)

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.

INGESTION: Do not induce vomiting. Seek medical attention.

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.

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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.