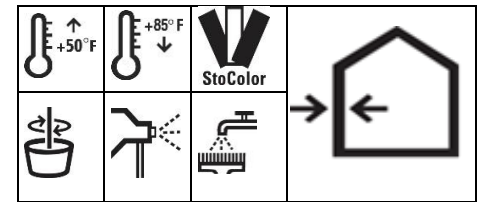


DRAFT PRODUCT BULLETIN

StoColor® Metallic Top Coat

Product Number: 81695



PRODUCT DESCRIPTION

StoColor Metallic Top Coat is an acrylic-based coating with metallic-effect pigments that provides the look of metal when combined with StoColor Metallic Base. Use it to decorate and protect prepared vertical, above grade StoTherm® ci, StoVentec® Render, and interior drywall surfaces.

FEATURES	BENEFITS
Compatible with StoTherm ci, StoTherm ci XPS, and StoVentec Render Systems	Get the look of metal while achieving continuous insulation in a single system
Metallic look in multiple colors over textured or smooth finishes	Design versatility
Can be combined with the look of other StoTherm ci architectural finishes	Economy - achieve the look of metal with adjacent brick, stone, and plaster on one Sto substrate
Water-based components	Safe and easy cleanup
Low VOC	Can qualify for LEED or other sustainable design programs

COVERAGE

StoColor Metallic Top Coat: 1150 - 1400 ft² (107 – 130 m²) per pail per coat for smooth-light texture surfaces. Heavier textures decrease coverage.

Coverage will vary depending on substrate condition and texture, application technique, waste factor, final film thickness, and other variables that may exist. Always install a test area or mock-up under conditions of use to verify number of coats required of base and top coat to achieved desired look, and coverage for each product.

Packaging: 5 gallon pail (19L)

Sheen: Metallic

Shelf Life: 12 months, if properly stored and sealed.

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

StoColor Metallic Top Coat Colors

Color Name	Color No.	
Color Name	Base	Top Coat
Lancaster Nickel	37204	301
Revere Pewter	37202	301
Sonoran Tan	31234	301
Akoya Pearl	33114	301
Patagonia Dusk	34321	301
Italian Alabaster	16004	301
Havasu Teal	36120	301
Bavarian Wheat	32113	302
Keweenaw Bronze	32242	303
Colombian Copper	32241	303
Luxor Gold	31300	304
Valencia Orange	32201	304
Curacao Sky	35312	305
Shanghai Crimson*	VT206530	306
Cosmic Blue*	VT100057	307

*LRV less than 20. Not recommended over EIFS.

SURFACE PREPARATION

All surfaces must be structurally sound, clean, dry, and free of frost and surface contamination such as dust, dirt, salts, grease, oils, 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 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 and coatings.

MIXING

Use at a preconditioned temperature of 70 ± 5°F (21 ± 3°C). Mix product for up to 3 minutes using a slow-speed drill and mixing paddle to a uniform consistency. Product may settle during storage or after several hours without use. Remix every 4 hours. DO NOT THIN OR DILUTE.

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APPLICATION

Apply only to structurally sound, clean, dry, properly prepared, frost-free surfaces at temperature between 50 and 85°F (10-29°C). Do not apply over damp surfaces or during rain, hail, or snow events or if rain, hail, or snow is imminent.

General Rules for Application:

- **IMPORTANT:** Provide adequate ventilation for applications in confined spaces and/or interior application. Use a NIOSH approved respirator when spraying and sanding
- Use on StoTherm ci or StoVentec Render Systems.
- **ALWAYS** check color for proper match. If color does not match, **STOP**-call your Sto representative. Minor shade variations may occur from batch-to-batch (refer to batch number on pail). Do not intermingle different batches of base or top coat on an elevation. Apply a single batch of base and a single batch of top coat to cover all the area on a wall elevation. Alternatively “boxing” may be necessary.
- All surfaces **MUST** be coated with 81723 StoColor Metallic Base and **MUST BE UNIFORM IN COLOR** before coating with top coat.
- For a smooth metallic look (Signature Stone 10) application in a TEMPERATURE and HUMIDITY CONTROLLED INTERIOR ENVIRONMENT is recommended.
- Apply in a continuous uniform application, maintaining a wet edge, and at discrete start and stopping points to eliminate cold joints and lap marks.
- Employ a skilled finish application professional/artisan with previous metallic coating application experience.
- For best results apply over Sto textured finishes.
- Always install a test area or mock-up under conditions of use to the approved substrate, and of sufficient size, to verify final appearance and number of coats of:
 - Base, typically 1 or 2 coats, but may require additional coats, depending on substrate, to achieve hide and uniform color
 - Top Coat, typically 1 or 2 coats, but may require additional coats, to achieve the desired appearance for approval by owner, architect, or owner’s representative.

IMPORTANT: IF THE BASE DOES NOT HIDE OR IS NOT UNIFORM IN COLOR THE TOP COAT WILL NOT CORRECT COLOR VARIATIONS IN THE BASE. MULTIPLE TOP COATS AFFECT FINAL COLOR.

IMPORTANT: CHECK TO MAKE SURE COLOR IS UNIFORM BEFORE APPLYING TOP COAT. A NON-UNIFORM BASE COLOR WILL RESULT IN A NON-UNIFORM TOP COAT APPEARANCE

Recommended Application Method & Equipment:

Substrate	Base	Top coat
Textured finish	3/8-in (10mm) nap roller, or spray & back roll	3/8-in (10mm) nap roller
Signature Stone 10 ¹	3/4-in (19mm) polyamide ² yarn string roller	3/8-in (10mm) nap roller

1. Stolit1.0 with tight coat of Stolit Freeform, floated
2. Polyamide yarn string rollers (Cirrus X Roller) are available from Wooster Brush Company, 800 392 7256, www.woosterbrush.com

Application over Sto Textured Finish (1.0mm or Heavier Texture):

- StoColor Metallic Base Application:
 1. Allow Sto Textured Finish to dry minimum 24 hours
 2. Apply 1 uniform coat by roller or spray at 6-8 WFT to the prepared surface. **BACK ROLL** spray applications.
 3. Additional coats may be needed for desired look of the finished wall surface. Allow to dry 4-12 hours between coats.
 4. Make the final pass on all coats with the roller so no lap marks are visible.

IMPORTANT: ALLOW BASE LAYER TO DRY MINIMUM 72 HOURS BEFORE APPLYING STOCOLOR METALLIC TOP COAT. CHECK TO MAKE SURE COLOR IS UNIFORM BEFORE APPLYING TOP COAT. A NON-UNIFORM BASE COLOR WILL RESULT IN A NON-UNIFORM TOP COAT APPEARANCE.

- StoColor Metallic Top Coat Application:
 1. Apply with a 3/8-inch (10mm) nap roller in 1 or 2 **THIN** coats. Apply additional **THIN** coats if needed for the desired look. **IMPORTANT: THICK APPLICATION COULD RESULT IN NON-UNIFORM APPEARANCE.**
 2. Apply in a manner to evenly distribute the coating across the wall surface. Allow to dry 4-12 hours between coats.
 3. Make the final pass on all coats so no lap marks are visible.

IMPORTANT: MULTIPLE TOP COATS AFFECT FINAL COLOR.

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Application over Stone 10 for Smooth Metallic Look:

FOR BEST RESULTS APPLY IN A TEMPERATURE/HUMIDITY CONTROLLED INTERIOR ENVIRONMENT OVER STOTHERM CI OR STOVENTEC RENDER; IF APPLIED OUTSIDE, LIMIT AREA TO A SIZE THAT CAN BE COMPLETED DURING CONSISTENTLY DRY AND MODERATE WEATHER CONDITIONS WITHOUT WIND, RAIN, HIGH HUMIDITY, OR DIRECT SUN EXPOSURE DURING APPLICATION.

- Divide the area into discrete unobstructed panels of not more than 25ft² (2.3m²)
- Stone 10 Application (refer to Sto Signature Stone 10 Application Guide):
 1. Apply Stolit 1.0 with a stainless steel trowel over the prepared StoTherm ci or StoVentec Render base coat, float the finish and allow to dry.
 2. Knock the tips off the dried finish using the edge of a stainless steel trowel and brush loose particles from the surface
 3. Apply Stolit Freeform in a tight, thin coat, allow to partially dry, and float with a dry plastic float
 4. Allow finish to continue to dry and when dry to the touch, float again using a dry float in a non-directional manner

ALLOW STOLIT Freeform TO DRY MINIMUM 72 HOURS BEFORE APPLYING STOCOLOR METALLIC BASE

- StoColor Metallic Base Application:
 1. Apply 1 uniform coat with a 3/4-inch (19mm) string roller to the prepared surface. Allow to dry 4-12 hours.
 2. Apply additional coats if needed and allow to dry 4-12 hours between coats.
 3. Make the final pass on all coats so no lap marks are visible

ALLOW BASE LAYER TO DRY MINIMUM 72 HOURS BEFORE APPLYING STOCOLOR METALLIC TOP COAT.

• StoColor Metallic Top Coat Application:

1. Apply by spray or with a 3/8-inch (10mm) nap roller in 1 or 2 THIN coats. Apply additional THIN coats if needed for the desired look. IMPORTANT: THICK APPLICATION COULD RESULT IN NON-UNIFORM APPEARANCE.
2. Apply in a manner to evenly distribute the coating across the wall surface. Allow to dry 4-12 hours between coats.
3. Make the final pass on all coats so no lap marks are visible.

IMPORTANT: MULTIPLE TOP COATS AFFECT FINAL COLOR.

Application over Interior Drywall Surfaces (for Application over Sto Textured Finishes or Signature Stone 10 only)

- Finish drywall to a Level 4 Finish. Apply StoPrime® Sand by roller and allow to dry, then apply Sto textured finish (see applicable Sto Product Bulletin or Application Guide) or Stone 10. Refer to instructions above for application of StoColor Metallic Base and StoColor Metallic Top Coat .

Drying

Each coat of base and top coat dries within 12 hours under normal drying conditions [70°F (21°C), 50% RH]. Drying time varies with temperature/humidity and surface conditions. Cool or damp weather extends drying time. Hot or dry weather accelerates drying. Protect installed product from rain, freezing, and continuous high humidity until completely dry. Required dry times between base and top coats are 72 hours.

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 the façade and recoat with Sto Clear Coat Sealer or base coat and topcoat as needed to maintain fresh appearance or to restore the metallic look. 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.

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LIMITATIONS

- Apply when ambient and surface temperatures are 50°F (10°C) and rising, and below 85°F (29°C).
- Do not apply during damp, high humidity, or wet weather conditions
- 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, puddling, or streaming water conditions
- Do not overcoat with solvent-based materials.
- Color is limited to standard palette of 15 colors
- Base and Topcoat must be factory tinted.
- Efflorescence of portland cement-based substrates such as EIFS base coats 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, metal, portland cement plaster/stucco, concrete, concrete masonry, brick, or StoTherm ci Mineral surfaces.
- Not recommended over colored aggregate finishes such as Sto Decocoat, Sto Granitex, and StoCreativ Granite, and Sto Creative Lux
- Panel size for smooth look metallic is limited to 25ft² (2.3m²) maximum and requires unobstructed installation.
- Exact color uniformity should not be expected. Shifts in color appearance should be anticipated when viewing from varying angles, distances, and lighting conditions
- Slight variations in installation and/or surface imperfections or surface planarity will create some variance in appearance of the finished wall surface.

HEALTH & 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 (SDS) on www.stocorp.com for further health and safety information.

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TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT*
Tensile Strength psi (MPa)	ASTM D2370	1 coat base, 2 top coats	712
Flexibility, Mandrel Bend	ASTM D522	at 120°F (49°C) at 70°F (21°C)	No cracking No cracking
Alkali Resistance	ASTM D1308	4 hours exposure	No lifting, wrinkling, disintegration, or color change
Mold Resistance	ASTM D3273	28-day exposure	Pass, Rating=10, No growth at 90 days
Efflorescence Blocking	ASTM D7072	48 hours in humidity cabinet at 100°F (39°C)	No efflorescence observed
Adhesion to Concrete lb/in ² (MPa)	ASTM D7234	> 50 (0.344)	Base Coat + Top Coat: 520 (3.58) Top Coat: 497 (3.42)
Resistance to Wind Driven Rain	ASTM D6904	24-hour water spray with 98 mph (158 km/h) equivalent wind speed	No visual changes or water leaks (0.16 lbs. [72.6g] weight gain)
Surface Burning	ASTM E84	Flame Spread: ≤ 25 Smoke Develop: ≤ 450	FS: 0 (2 Base coats + 2 Top Coats) SD: 0
Water Vapor Permeability Perms (ng/Pa·s·m ²)	ASTM D1653 Wet-cup method	1 Base coat +2 Top Coats 2 Base coats +2 Top Coats	16 (913.6) 13 (742.3)
Freeze Thaw Resistance	ASTM E2485	60 cycles	Pass, no deleterious effects at 60 cycles
Accelerated Weathering	ASTM G154	2000 hours	Pass, no deleterious effects at 5000 hours
% Solids by Volume	ASTM D2697	N/A	23%
VOC (g/L)	This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for Metallic Pigmented Coatings. VOC less than 150 g/L.		
* Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.			
**All results based on 1 coat StoColor Metallic Base and 2 coats StoColor Metallic Top Coat, except where indicated otherwise			

<p>Sto Canada Ltd. 1821 Albion Road Unit 1-2 Etobicoke, ON M9W 5W83800</p> <p>Tel: 416-855-0460 Toll Free: 1-800-221-2397 Fax: 404 346-3119</p> <p>www.stocanada.com</p>	<p>Revision Number: 004 Date: 06/2023</p>	<p style="text-align: center;">ATTENTION</p> <p>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 Canada Ltd. website, www.stocanada.com</p>
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