

PRODUCT:

000D097 Proceed® Metallic Medium, Pearl Base
000D096 Proceed® Metallic Medium, Gold Base
000D095 Proceed® Metallic Medium, Copper Base
000D094 Proceed® Metallic Medium, Bronze Base

MANUFACTURER:

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PRODUCT DESCRIPTION:

Proceed Metallic Mediums are acrylic mediums highly pigmented with iridescent mica pigments to produce a strong metallic effect. They may be diluted with Proceed Painting & Glazing Mediums for use as a metallic glaze or used undiluted as metallic paints to express a range of old elegance to contemporary opulence through a vibrantly rich open palette of shimmering metallic color.

Proceed Metallic Mediums are formulated with 100% acrylic polymers and are compatible with most waterborne products.

PRODUCT FEATURES:

- Single component, 100% acrylic waterborne formulation
- Complies with VOC (Volatile Organic Compounds) regulations in all North American jurisdictions
- Available in four intermixable tinting bases for custom color capabilities
- May be blended with transparent and translucent textures to add metallic highlights

CONTAINER SIZES:

Available in one gallon pails and one quart cans.

000D097-D	Metallic Medium, Pearl Base	115 oz. in 1 gal pail (short-filled for tinting)
000D097-L	Metallic Medium, Pearl Base	28.7 oz. in 1 quart can (short-filled for tinting)
000D096-D	Metallic Medium, Gold Base	115 oz. in 1 gal pail (short-filled for tinting)
000D096-L	Metallic Medium, Gold Base	28.7 oz. in 1 quart can (short-filled for tinting)
000D095-D	Metallic Medium, Copper Base	115 oz. in 1 gal pail (short-filled for tinting)
000D095-L	Metallic Medium, Copper Base	28.7 oz. in 1 quart can (short-filled for tinting)
000D094-D	Metallic Medium, Bronze Base	115 oz. in 1 gal pail (short-filled for tinting)
000D094-L	Metallic Medium, Bronze Base	28.7 oz. in 1 quart can (short-filled for tinting)

TECHNICAL DATA:

Weight Solids	27.0% - 31.0% ± 2%
Flash Point	>212° F
VOC	<50 grams/liter
Spread Rate	115 sq. ft./gallon at 4 mils dry film. Actual spread rate is highly dependent

	upon finish design and application technique and may vary. Preparation of a control sample is strongly recommended for accurate estimation of coverage.
Clean-Up	Clean up with soap and water. Dried material may be removed from tools with a citrus based cleaner or acetone.
Recoat Time	Let dry 12 – 24 hours before recoating with other Proceed products.
Full Dry	Product will approach final properties after 28 days of drying, but will continue to cure and harden for 90 days. Ambient conditions of temperature, humidity, and air flow will affect the rate of property development.
Min. Film Formation Temperature	>49° F
Storage and Shelf Life	Store between 50 and 95° F in a stable environment. DO NOT FREEZE. If frozen repeatedly, the product may become unusable. Do not allow material to freeze or be exposed to temperatures exceeding 120 F for extended periods.
Compatibility	Proceed Metallic Mediums are compatible with most waterborne acrylic architectural coatings. DO NOT USE with solvent based materials.

PRODUCT PERFORMANCE DATA*

Washability	ASTM D-3450 (non-abrasive scrub medium)	99% recovery
Abrasion Resistance	ASTM D-2486 (abrasive scrub to cut through)	1,000 cycles
Abrasion Resistance	ASTM D-4060-10 (abrasive disc)	2.4% weight loss at 1,000 cycles
Burnish Resistance	ASTM D-6736	20° Gloss % increase: -1.4% 60° Gloss % increase: -0.2% 85° Sheen % increase: +3.1%
Hardness	ASTM D-3363 Pencil Hardness	5B @ 28 days 2H @ 90 days
Household Chemical	ASTM D-1308, section 7.2	Slight to no effect after 16 hours: Welch's® Grape Juice, Ketchup
Permeability	ASTM D-1653 (Method B)	7.9 grains/hr x ft ² x in-Hg

* Product performance testing was conducted under laboratory conditions on 6-15 mil films cast on aluminum panels after 28 days of drying time unless otherwise noted. Actual field performance will be affected by finish design, application techniques, and application conditions.

TINTING:

Proceed Metallic Mediums are available in four bases:

- 000D097 Proceed® Metallic Medium: Pearl Base
- 000D096 Proceed® Metallic Medium: Gold Base
- 000D095 Proceed® Metallic Medium: Copper Base
- 000D094 Proceed® Metallic Medium, Bronze Base

The Metallic Mediums may be blended in any ratio and tinted with Proceed Pigment Dispersions, or with Proceed Slow-Drying Fluid Acrylics if a weaker tint is desired. Metallic Mediums are also compatible with most universal colorants. Use high transparency pigments to maximize the metallic luster of the final finish. High-hiding pigments will result in greater opacity, but will also reduce the metallic luster and reflection.

The "flash" or reflection at the critical angle is white/silvery in the Pearl Base which is intended to be used as the tinting base for cool colors. The reflection is gold in color with the Gold Base, making it more appropriate when a warm undertone and reflection is desired. The Copper and Bronze bases behave in a similar fashion. Incorporating White Dispersion in the color formula may be necessary when tinting more subdued warm colors.

Metallic Medium bases may be blended in any ratio desired to achieve a complete color palette from cool to warm.

Gloss may be lowered to a matte finish with the addition of 10% - 15% Proceed Matting Additive. However, the metallic luster will be diminished.

Do not add more than 10% Proceed Pigment Dispersion, Universal Colorant, or Slow-Drying Fluids in combination by volume. Use of more than recommended percentage could cause a change in application characteristics or, in the case of dispersions, water sensitivity and durability of the dried finish.

CAUTION: Tinting Metallic Mediums with aluminum or bronze powders is not recommended as it may cause out-gassing and rupturing of tightly sealed containers.

Always mix colorants thoroughly before use, and test tint formulas for desired color before use.

PRODUCT APPEARANCE:

Proceed Metallic Mediums have a milky appearance in the containers. Some metallic "swirl" may be noted on the surface of the wet material. This is normal and the material will take on a uniform appearance once mixed.

Pearl and Gold mica pigments are translucent in nature and the Pearl and Gold Metallic Mediums are likewise translucent. When tinted, the opacity increases depending upon the color and level of metallic effect desired. Copper and Bronze mica pigments are opaque.

Proceed Metallic Mediums produce finishes that are designed to exhibit some color variation. Installed finishes are expected to exhibit slight variations in lightness/darkness as well as shifts in reflected light that are dependent on the viewing angle and the effects of light sources. The degree of surface smoothness, finish design, and application method and technique will also influence the uniformity of finish appearance.

CONTROL SAMPLE:

Control samples (mock-ups) for each finish and color specified should be prepared for the Architect's, Designer's and/or Owner's review and documented when approved. Installation work should not commence until approval has been given. Control samples should be prepared on the actual substrate material and use the actual materials and techniques specified. The control sample should be of sufficient size to illustrate the range of variations in color and appearance expected in the completed finish. Control samples should be retained until work has been completed and accepted.

A written Finish Design Specification should accompany the control sample. The Finish Design Specification describes each step required in a multi-step finish design, including the materials used, application techniques and procedures required.

If the preparation and/or condition of the jobsite surfaces are in doubt, it is recommended that a control sample of the specified finish be applied at the jobsite to a surface area of sufficient size (no less than 4' x 4') to encompass variations in substrate profile and condition. The accepted control sample may be incorporated into the finished work.

MATERIAL STORAGE AND HANDLING:

Protect materials from extremes in temperature in shipment, storage and handling. Store in dry conditions between 45 and 95° F. Do not allow material to freeze or be exposed to temperatures exceeding 120 F for extended periods.

Maintain and deliver products in the original packaging with manufacturer's labels identifying product, color, lot number and date of manufacture.

Take care to protect packaging from construction dust and debris, which may contaminate the product upon opening of the containers.

APPLICATION CONDITIONS:

Proceed Metallic Mediums are waterborne products. Working time, dry-to-touch, and cure times will be influenced by environmental factors such as temperature, relative humidity, and air circulation. Do not apply Proceed Metallic Mediums when the substrate or ambient air temperature is below 60° F or in excess of 95° F.

Cold weather conditions

Provide heat as required to maintain the ambient temperature above 60° F. Temperatures above 65° F are preferred. Distribute heat evenly throughout the work area to prevent concentration of heat on work surfaces near heat source(s).

Warm weather conditions

Anticipate accelerated rates of drying in hot and dry conditions, and longer drying times in high humidity conditions. Excessively rapid evaporation from a strong flow of dry air may cause the product to dry on tools and open containers to produce dried particulates that contaminate the finish.

Be aware of localized areas of temperature differentials and air movement (or lack thereof) that can affect the drying rate and working time of waterborne coatings. Such areas include surfaces in close proximity to heating/cooling outlets, open windows, niches, and high ceilings. Providing for a moderate level of air circulation can mitigate these effects.

Metallic effect coatings and textures are sensitive to the smoothness of the substrate to which they are applied. Imperfections and raised areas may telegraph through the finish. For smooth finishes applied to drywall, close attention should be paid to the quality of seam taping, sanding and priming.

Protect contiguous surfaces from soiling caused by the application of Metallic Mediums.

SURFACE PREPARATION:

New drywall

Repair holes, cracks and imperfections with joint compound and sand smooth. Wipe with a clean, damp rag to remove all sanding dust and construction debris.

The level of drywall preparation required is dependent upon the specified finish design. A level 5 surface (Gypsum Association G214 Standard) is recommended for broad wall applications to prevent joint telegraphing. Control samples should be prepared to determine the level of surface preparation needed for any particular finish design.

Previously painted surfaces

Remove all loose paint, dirt, chalk, and damaged substrate. Clean thoroughly to remove any waxy, greasy or oily residues. Scuff sand high gloss finishes to ensure good adhesion. Wipe with a clean, damp rag to remove all sanding dust and construction debris. Stains from water, smoke, grease, ink, markers, etc. must be sealed with a suitable stain-blocking primer. Do not apply to wet or damp surfaces.

Proceed Metallic Mediums may be applied to other rigid surfaces such as wood and masonry if these substrates are cleaned, prepared, and primed to accept waterborne acrylic architectural coatings.

Mildew

Mildew must be neutralized and removed before applying Metallic Medium. Clean affected areas with a 3:1 solution of warm water to household bleach. Rinse thoroughly with clean water and allow the surface to dry completely before priming the affected area with a stain-blocking primer. Do not add ammonia or detergents to the bleach/water cleaning solution. Wear protective eyewear and gloves. Immediately wash skin that comes into contact with the cleaning solution.

PRODUCT PREPARATION:

Mixing

Using clean, uncontaminated mixing tools, stir or mix material to assure uniformity and that colorants are uniformly dispersed. Metallic Mediums may be mixed using a paint shaker or orbital mixer. Take care not to allow dirt, debris, or other materials to contaminate the product.

Thinning

Metallic Mediums do not require thinning for roller or brush application, but may be reduced in viscosity to preference with water.

Metallic Mediums may be reduced with water or GOLDEN Airbrush Medium 2:1 for use in an HVLP sprayer.

APPLICATION:

Stir well before using. Some metallic “swirl” noted on the surface of the wet material is normal.

Apply Proceed Metallic Medium as described in the Finish Design Specification that accompanies the control sample.

The use of Proceed Low Absorbency Basecoat or a 100 % acrylic basecoat tinted to a slightly lighter shade of the final finish is recommended.

Let dry 12 - 24 hours before over coating with other Proceed products.

Roller Application

Use a specialty roller cover designed to hold and transfer heavy volumes of wet material. The following work well, but produce a different finish appearance. Examples include: Purdy[®] Colossus[™] roller sleeve 1/2" or 3/4" nap; Sherwin-Williams[®] Contractor Series[®] 9/16 Microfiber roller; Valspar[®] Signature Colors[™] Brilliant Metals roller cover; or the Wooster[®] Polar Bear[™] roller cover .

For broad wall applications, apply Metallic Mediums over the basecoated surface in 3 to 4 foot wide floor-to-ceiling rectangular sections along the wall. Cut in using a smaller roller or brush but DO NOT ALLOW TO DRY. Use short movements to apply the material, keeping the roller cover saturated with material. Avoid "dry" rolling, as this will cause shadows and lap lines in the final finish.

When each section is complete, strike off the finish using a smooth, continuous ceiling-to-floor motion of the roller with light pressure. This will help to orient the mica flakes and produce a uniform finish. Maintain a wet edge to allow sections to be worked together.

Brush Application

Metallic Mediums may be brush applied as the finish design requires. For leveling to occur, brush on enough to allow the Metallic Medium to level itself. Brushing out in too thin an application will promote immediate drying without leveling.

Spray Application

HVLP (High Pressure Low Volume) spray application will result in the most uniform, consistent visual appearance.

- Use manufacturer's recommended needle and air cap for latex paints
- Reduce to adjust for proper atomization using up to 2 parts Metallic Medium to 1 part water or Golden Artist Colors Airbrush Medium.

When spraying, wear eye protection and particulate respirator, and prevent others from coming into contact with spray mist.

Proceed Low Absorbency Base Coat is recommended for Finish Design Specifications that require a tinted base coat as the first step.

Apply Proceed Metallic Medium in a continuous application to avoid scaffold lines, section lap lines, and other visual deficiencies.

Do not bridge expansion or control joints.

CLEANING:

Tools – Clean tools and equipment with soap and water. Dried material may be removed from tools using a citrus cleaner or acetone.

Adjacent surfaces – Remove Metallic Mediums immediately using water or, if dry, a cleaner such as Formula 409[®]. Metallic Medium will be more difficult to remove after several days of drying.

Finished surface – After 28 days, light scuff marks and non-staining soil may be removed from smooth applications of Metallic Medium with a damp cloth or sponge or a mild detergent.

SAFETY PRECAUTIONS:

Always use safe work practices. Avoid ingestion, excessive skin contact, and inhalation of concentrated vapors and sanding dusts.

RESPIRATORY PROTECTION: None required under normal use. When sanding or spraying, use a NIOSH P100 dust and mist respirator. If conditions warrant, a vapor respirator for protection against ammonia may be used.

VENTILATION: General dilution ventilation is recommended at a level sufficient to keep individuals asymptomatic to inhalation exposure.

PROTECTIVE GLOVES: Gloves are recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety glasses (with side shields) or goggles.

WORK/HYGIENIC PRACTICES: All GOLDEN products should be used in accordance with safe handling practices, including: do not eat, drink or smoke when working with materials, avoid excessive skin contact, wash after working with materials.

FIRST AID:

EYE CONTACT: Flush with water for 15 minutes. SEE DOCTOR if any symptoms persist.

SKIN CONTACT: Wash with soap and water. SEE DOCTOR if skin irritation occurs.

INHALATION: Remove subject to fresh air. SEE DOCTOR if symptoms persist.

INGESTION: If swallowed, dilute by giving 2 or more glasses of water to drink ONLY IF CONSCIOUS! SEE DOCTOR.