

PRODUCT:

000D155 Proceed® Smooth Transparent Glazing Gel

MANUFACTURER:

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PRODUCT DESCRIPTION:

Proceed Smooth Transparent Glazing Gel is a versatile acrylic glazing medium that is used to build layers of transparent or translucent color in a wide range of traditional or contemporary finishes for walls, cabinets or furniture.

Smooth Transparent Glazing Gel can be tinted with Proceed metallic mediums or GOLDEN Interference and Iridescent colors to create metallic effects.

Smooth Transparent Glazing Gel is one of a family of compatible Proceed products that can be used alone or blended to achieve a wide range of surface appearance.

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

PRODUCT FEATURES:

- Single component, 100% acrylic waterborne formulation
- Can be tinted, thinned, sprayed or rolled (with proper thinning)
- Not meant as a protective topcoat for floors or countertops
- This product has a high shrinkage rate. Avoid thick layers over highly absorbent surfaces, as crazing and lifting may occur.
- Has a significant wet-dry color shift. See this page to observe color formulations and wet/dry color shift:
http://proceedsystem.com/wiki/index.php/Tinting_Smooth_Transparent_Glazing_Gel

CONTAINER SIZES:

Available in one gallon and five gallon pails, where permitted by local jurisdictions.

16 oz. trial sizes are also available to facilitate product evaluation and the preparation of control samples.

000D155-D	Smooth Transparent Glazing Gel	115 oz. in 1 gal pail (short-filled for tinting)
000D155-F	Smooth Transparent Glazing Gel	576 oz. in 5 gal pail w/tint plug (short-filled for tinting)

000D155-6	Smooth Transparent Glazing Gel	16 oz. plastic jar
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TECHNICAL DATA:

Weight Solids	31.3% ± 2%
Density	8.70 lbs. per gallon
Flash Point	>212° F
VOC:	<350 grams / liter
Spread Rate:	100 sq. ft. / gallon at 4 mils dry film. Actual spread rate is highly dependent upon finish design and application technique and may vary from 75 - 225 sq. ft gallon. 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 degrees Fahrenheit 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 Smooth Transparent Glazing Gel is 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)	100% recovery
Abrasion Resistance	ASTM D-2486 (abrasive scrub to cut through)	200 cycles
Abrasion Resistance	ASTM D-4060-10 (abrasive disc)	.75% weight loss at 1,000 cycles
Burnish Resistance	ASTM D-6736	20° Gloss % increase: 3.9% 60° Gloss % increase: -2.6% 85° Sheen % increase: -2.4%
Hardness	ASTM D-3363 Pencil Hardness	4B @ 28 days 6H @ 90 days
Household Chemical	ASTM D-1308, section 7.2	Slight to no effect after 16 hours:
Permeability	ASTM D-1653 (Method B)	15.3 grains/hr x ft ² x in-Hg
Flame Spread	Guardian Laboratories GL 05-08, Pre E-84 Test	Probable Class A; self-extinguishing

* 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:

000D155 Proceed[®] Smooth Transparent Glazing Gel

Tint with Proceed Pigment Dispersions or Proceed Slow-Drying Fluids if a weaker tint is desired, mixing thoroughly before use. Use high transparency pigments to maximize transparency of the final finish. It may also be tinted with Proceed Metallic Mediums to add metallic luster and depth.

Do not add more than 10% Proceed Pigment Dispersion, Universal Colorant, Proceed Metallic Medium 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.

Sheen may be modified by addition of Proceed Matting Additive

- Satin Finish - Blend Glazing Gel with Matting Additive in a 10:1 ratio
- Pearl Finish - Blend Glazing Gel with Matting Additive at a 4:1 ratio

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

PRODUCT APPEARANCE:

Proceed Smooth Transparent Glazing Gel appears milky or cloudy when wet, but dries to a smooth high gloss surface.

Untinted product will dry with a slight bluish cast that may be noticeable in heavier applications. Thick, textural applications that are untinted will remain cloudy when dry.

The sheen may be modified with the addition of Proceed Matting Additive.

Proceed Smooth Transparent Glazing Gel has a significant wet-to-dry color shift. The wet, mixed color will appear lighter due to the milky appearance of the wet acrylic.

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 Smooth Transparent Glazing Gel is a waterborne product. 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 Smooth Transparent Glazing Gel 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 strong flows 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.

Decorative products 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 Smooth Transparent Glazing Gel.

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. Rough textured finishes (for example, loosely troweled, stippled, or stipple/knockdown finishes) may be applied to a Level 3 surface (Gypsum Association G214 Standard). A level 5 surface is recommended for smooth,

polished applications to prevent joint telegraphing. Control samples should be prepared to determine the level of surface preparation needed for any particular finish design.

To maintain documented flame and smoke performance, Smooth Transparent Glazing Gel must be applied over 5/8" Type-X fire rated gypsum board.

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 Smooth Transparent Glazing Gel 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 Smooth Transparent Glazing Gel. 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. Smooth Transparent Glazing Gel 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

Smooth Transparent Glazing Gel does not require thinning, but may be reduced up to 30% with water to ensure proper flow in a hopper gun or a line-fed texture sprayer.

APPLICATION:

Proceed Smooth Transparent Glazing Gel is a decorative product that is intended to be worked or "tooled" after application to wall surfaces in order to produce the decorative effects intended by the finish designer. Prior to tooling, Smooth Transparent Glazing Gel may be transferred to the work surface by troweling, rolling or spraying.

Apply Proceed Smooth Transparent Glazing Gel as described in the Finish Design Specification that accompanies the control sample.

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

Trowel application

Apply directly over well sealed, base painted substrates or over Proceed Textures in single coats or in wet-on-wet layers of translucent color. Apply the first coat in irregular sections, blending sections

together, or apply in irregular “patches” depending upon technique. If a bi-color effect is desired, mix colors by applying new material to the wet surface and working into the first coat with a trowel or alternative tool to the desired finish. Work colors together while wet to achieve desired appearance.

When applying in hot or dry conditions, observe the trowel edges and periodically wipe them clean to prevent buildup of dried material that can break free and create scratch marks in the work.

Roller application

Use a paint roller cover to transfer Smooth Transparent Glazing Gel to the work surface for subsequent tooling. Roller cover thickness will determine the amount of material that is applied to the work surface for subsequent tooling and will influence the appearance of the final finish. Use a ½” nap cover for thin applications. Increasing the nap thickness will result in heavier applications. Follow the recommendations in the Finish Design Specification to achieve the appearance of the control sample.

Texture Sprayer

Spraying allows for a consistent, uniform amount of product to be applied rapidly for a quick follow up knock down. In addition to speed in transferring the material to wall surfaces, this is an effective way to uniformly coat 3-dimensional surfaces.

Hopper Sprayer

- Marshalltown SharpShooter[®] or equivalent.
- #1 tip (3/16” / 5mm orifice); 40 PSI.
- Reduce with water to adjust for proper atomization using up to 2 parts Glazing Gel to 1 part water.

Pump/compressed air sprayers with reservoir

- Graco[®] TexSpray RTX 1500 or equivalent.
- “beige” tip; 40 PSI
- Reduce with water up to 10% - 15% to adjust for desired application

Airless Sprayer

- Graco[®] TexSpray Mark V or equivalent.
- 5-17 or 5-15 tip; 2,000 PSI.
- Reduce with water up to 10% - 15% to adjust for desired application

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 Smooth Transparent Glazing Gel 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 Smooth Transparent Glazing Gel immediately using water or, if dry, a cleaner such as Formula 409[®]. Smooth Transparent Glazing Gel will be extremely 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 Smooth Transparent Glazing Gel 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 Artist Colors 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.