

Diamond® Veneer Finish



For economical, abrasion-resistant walls and ceilings

- Harder than regular gauging and lime putty finish.
- Finish coat for one- and two-coat veneer plaster systems.
- Fast-applying—permits next day decorating.
- Excellent coverage—as much as 6,000 sq. ft. per ton.
- Choice of smooth-trowel and textured finishes.
- Job-sanded for use as radiant heat plaster.

Description

DIAMOND® Brand Veneer Finish is a white finish formulated for hand application over IMPERIAL® Brand Gypsum Base or as a finish of a two-coat system over a sanded gypsum basecoat, IMPERIAL® Veneer Basecoat or DIAMOND® Veneer Basecoat. Applied to a nominal 1/16" to 3/32" thickness, this veneer finish is unaggregated for a smooth or skip-trowel finish; may be job-aggregated with up to an equal part by weight of clean silica sand for Spanish, swirl, float or other types of texture.

DIAMOND Veneer Finish is recommended for interior wall and ceiling surfaces, and over properly prepared monolithic concrete in residential single-family dwellings, high-rise buildings and garden apartments. It provides a strong, hard surface capable of resisting both abrasion and surface cracking.

DIAMOND Veneer Finish is also ideal for use in electric cable systems (if properly job-sanded) and in the USG™ Decorative Interior Finish System. See instructions for these applications in USG literature PM12, "Recommendations for Producing Colored Interior Walls and Ceilings" and PM16, "Application Directions for DIAMOND® Brand Interior Finish in Electric Cable Heat Systems."

Advantages

Fast completion Provides rapid, easy application and increased productivity with high coverage (as much as 6,000 sq. ft. per ton). Can be decorated when dry (in as little as 24 hours) with a latex-based breather-type paint, minimizing costly delays and speeding occupancy.

Versatility Can be richly textured or finished smooth to a hard, dense surface. The finished surface is several times harder than standard drywall and provides resistance to scuffs, scrapes and dents common with everyday traffic.

Joinability Work can be halted anywhere because the material is joinable. Rooms can be topped out and re-scaffolding eliminated.

Whiteness In many residential markets, the beautiful white monolithic finish may be left undecorated if skip-trowel, floated or other textured finishes are utilized. However, decoration should be specified, then eliminated later if finish is acceptable.

Economy High coverage and timesaving installation provide valuable economies where the ultimate strength (3,000 psi) of IMPERIAL® Brand Veneer Finish is not required.

Fire and sound ratings Wall and ceiling systems completed with DIAMOND Veneer Finish offer fire ratings up to four hours. Sound-rated assemblies up to 62 STC satisfy any residential or commercial requirement.

Limitations

1. Not recommended where contact with water or excessive moisture may be encountered.
2. Not recommended for use over portland cement basecoat or direct to masonry surfaces. Use IMPERIAL Veneer Basecoat or DIAMOND Veneer Basecoat applied directly to concrete block or over a bonding agent on poured concrete prior to application of DIAMOND Veneer Finish as the finish coat.
3. Machine application is not recommended.
4. For recommendations over monolithic concrete, see "Application" section below.

Directions

Preparation

Protect the product from moisture during storage and on the job. In cold weather, heat the interior of the building to a minimum of 55 °F (13 °C) for an adequate period before the application of plaster, while basecoat and finish is being applied, and until the finish is dry. Air circulation should be kept at a minimum level during this period.

If possible, maintain building temperature-humidity combination in the "normal drying" area of the graph on page 3. When dry conditions exist, relative humidity often can be increased by wetting down the floor periodically. During these periods, make every effort to reduce air movement by closing windows and deflecting heater blower and duct output away from the surfaces being plastered. If the building temperature-humidity combination is in the "rapid drying" area of the graph, follow directions in the "Rapid drying conditions" section below.

SHEETROCK® Brand Joint Tape and SHEETROCK® Brand DURABOND® Setting-Type Joint Compound or SHEETROCK® Brand EAST SAND™ Lightweight Setting-Type Joint Compound must be used to treat all joints and internal angles when any of the following conditions exist: Rapid drying conditions due to low humidity, high temperature and

excessive evaporation; metal framing is specified; 24" o.c. wood frame spacing and a single-layer gypsum base veneer system is specified (5/8" base with one-coat veneer finish, or 1/2" or 5/8" base with two-coat veneer finish). Allow joint treatment to set and dry thoroughly before plaster application.

Protect all finish materials and finish surfaces from contact with DIAMOND Veneer Finish. These include glass, ceramic materials, metal and wood. Apply wood, plastic or other exposed trim after finish application.

Gypsum base applications DIAMOND Veneer Finish should be applied to IMPERIAL Gypsum Base having pristine blue face paper. However, under abnormal conditions where there is no alternative to using gypsum base faded from excessive exposure to sunlight or ultraviolet radiation, precautions should be taken to prevent delamination. Degrading may occur when gypsum base has been installed long before the finish is applied. Degraded gypsum base is indicated if the face paper is not blue or grayish blue. When the face paper color becomes gray to tan, treat the paper with USG™ Accelerator—Alum Catalyst. **Note:** If USG Accelerator—Alum Catalyst is not used, an alternative corrective procedure is to use USG™ Plaster Bonder over the faded IMPERIAL Gypsum Base. Use of USG Plaster Bonder to correct the condition will require that a two-coat veneer plaster system be used, since the bonder application will eliminate base suction needed for proper one-coat veneer application. For alum solution treatment, dissolve three lbs. of alum in one gal. water. Pour alum slowly into water and mix thoroughly. Allow solution to stand until any undissolved materials have settled; strain solution into tank-type sprayer (such as a lawn and garden sprayer). One gallon of solution should treat 750 sq. ft. of base. Begin finish application before alum solution is completely dry. **Note:** Alum treatment reduces setting time of DIAMOND Veneer Finish.

One-coat system applications Apply SHEETROCK® Brand No. 800 Corner Bead (No. 900 for two-coat system) to gypsum base with 9/16" rosin-coated staples 9" o.c. on both flanges along entire length of bead.

Monolithic concrete applications Apply DIAMOND Veneer Finish only to interior, structurally sound, clean, smooth monolithic surfaces treated with a high-quality bonding agent such as USG™ Plaster Bonder. The bonding agent should be applied in accordance with the manufacturer's directions. Grind ridges and high points flush, and brush surface of loose particles. Slight irregularities (less than 1/8") do not interfere with smooth application. Treat voids and depressions with the bonding agent before pre-filling. Pre-fill voids and depressions with IMPERIAL Veneer Basecoat, DIAMOND Veneer Basecoat, or with DIAMOND Veneer Finish job-aggregated with one-half to one full part sharp, clean, fine silica sand. After application, leave these areas rough and open, and allow them to set. The pre-fill should not be more than 1/4" thick. If pre-filled areas are allowed to dry overnight, recoat these areas with USG Plaster Bonder prior to application of the plaster product. If pre-filled areas are still "green" (set, but not dry), there is no need to recoat the surface with the bonding agent.

Job-aggregate the finish coat of DIAMOND Veneer Finish with one-half to one full part sharp, clean, fine silica sand. Although this material may be applied unaggregated, the sand promotes good mechanical bond between the finish coat and the bonder/concrete substrate. The sand-aggregated finish also builds up material over slight irregularities, producing an acceptable monolithic finished surface without detracting from smooth finishing. In addition, the aggregated finish provides options for sand float or other sand textured surfaces. **Note:** Delay smooth troweling or texturing until DIAMOND Veneer Finish surface has become firm and stiff enough for texturing.

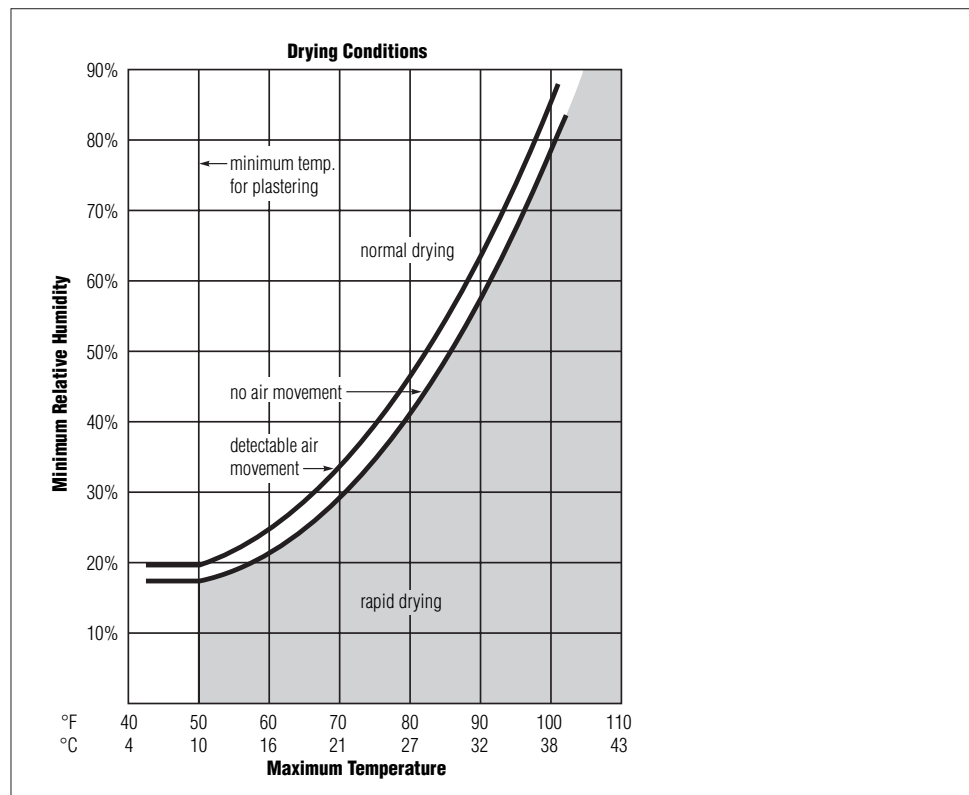
Joint Treatment

Normal drying conditions Align IMPERIAL® Brand Type P (pressure-sensitive) Tape over the joint and press into place over the entire length of the joint. Eliminate wrinkles and assure maximum adhesive bond by pressing the entire length of tape with a steel finishing knife or trowel. Press the tape into corners with a corner tool. Do not overlap.

Alternatively, attach IMPERIAL® Brand Type S Tape with spring-driven hand stapler using 3/8" staples. Use two staples at each end of the tape; staple the remainder at staggered 24" intervals. At wall-ceiling angles, staple every 18" to 24" along the ceiling edge only. For wall-to-wall interior angles, staple every 18" to 24" on one edge only, working from top to bottom. Position the tape to bridge the joint at all interior corners without overlapping.

Embed the tape and fill beads with a coat of DIAMOND Veneer Finish and allow to set—but not dry—prior to finish application. Slightly underfill in the bead by screeding along the bead with edge of trowel after setting the bead. (Best results are obtained by planning the job to permit continuous application from angle to angle.)

Rapid drying conditions SHEETROCK Joint Tape and DURABOND Setting-Type Joint Compound or EASY SAND Lightweight Setting-Type Joint Compound must be used to treat all joints and internal angles when building temperature-humidity conditions fall in the “rapid-drying” area of the graph below.



Mix the compound in a clean 5 gal. container (plastic is preferred). Use a commercial potato masher or a 1/2" heavy duty 200- to 300-rpm electric drill with a blade-type drywall paddle. Drill speed should not exceed 450 rpm. Use the amount of water shown on the bag and always sift the powder into the water to ensure complete wetting. Stir vigorously for 3 minutes; if lumps remain, allow the mix to soak for 1 to 2 minutes, then restir until smooth. **Note:** Do not contaminate the compound with other materials, dirty water or previously mixed batches. Do not retemper batches.

Apply compound to the joints using a trowel or steel finishing knife to force the compound into the joints. Center the SHEETROCK Brand Joint Tape over the joint and press it into the fresh compound with a trowel held at a 45° angle. Draw the trowel along the joint with sufficient pressure to remove excess compound.

After the tape is embedded, apply a skim coat of joint compound to reduce the possibility of edge wrinkling or curling. Allow the skim coat to set, then apply a separate finish coat, completely covering the tape and feathering 3" to 4" beyond the edges of the tape. The tape must be fully concealed to prevent photographing due to the final finished suction over the joint-compound-treated area. Allow the joint treatment to set and dry thoroughly before plaster application. Plaster prefill is not required over setting-type joint compound.

Note: SHEETROCK Joint Tape and DURABOND Setting-Type Joint Compound or EASY SAND Lightweight Setting-Type Joint Compound also must be used to treat all joints and internal angles when either of the following conditions exist: Metal framing is specified; or 24" o.c. wood-frame spacing and a single-layer gypsum base veneer system

is specified (5/8" base with one-coat veneer finish, or 1/2" or 5/8" base with two-coat veneer finish.) Single-layer 1/2" base is not recommended with 24" o.c. spacing and one-coat veneer plaster.

The graph identifies conditions of rapid drying when the alternate use of paper tape and setting-type joint compound are required for proper joint reinforcement.

Mixing

DIAMOND Veneer Finish will produce mortar of maximum performance and workability when the correct equipment is used and mixing directions are carefully followed. Proper mixing is an important factor in producing mortar of maximum workability.

Use a cage-type mixer paddle driven by heavy-duty 1/2" electric drill with no-load rating of 900 to 1,000 rpm. Do not use a standard drywall-compound propeller-type paddle or a conventional mortar mixer. (For details of the cage-type mixing paddle and proper electrical drill, see USG literature PM19.)

Mix the finish in a 12- to 15-gal. smooth-side container strong enough to withstand impacts that could cause gouging; do not use brittle containers for mixing. Correct mixing (rapid and high shear action) are essential for proper dispersion of finish ingredients. Slow mixing reduces plasticity of material. Overmixing shortens working time. Operated at correct speed, the cage-type paddle mixes thoroughly, developing maximum plasticity for high coverage and productivity.

Water usage is approximately 12 to 15 qt. per 50-lb. bag. Place all but 1 to 2 qt. of clean water in the mixing container and, with the mixer operating, slowly add one bag of plaster. When the material is wetted, use additional water (1 to 2 qt.) to obtain the desired mortar consistency. Mix for a minimum of two minutes but no longer than five minutes. The finish sets in approximately one hour. Do not mix more than can be applied in 30 minutes, and do not retemper.

If DIAMOND Veneer Finish is job-aggregated, a suitable retarder must be added. Add 1/4 to 1/2 teaspoon of USG™ Retarder for Lime Containing Plasters per bag of aggregated DIAMOND Veneer Finish to the mixing water to allow sufficient working time.

Application

This interior finish is intended for hand application over veneer or conventional sanded plaster basecoats, as well as direct to gypsum base as a one-coat system. It may be applied over monolithic concrete by following the directions below. Machine application is not recommended. When applied over veneer or conventional sanded plaster basecoat, be certain the basecoat is not completely dry. The basecoat should be rough and open and allowed to set and only partially dry to provide suitable suction for the finish.

Application to gypsum base Begin application only after the joints have been reinforced with glass-fiber tape and preset with an application of DIAMOND Veneer Finish (or treated with SHEETROCK Joint Tape and DURABOND Setting-Type Joint Compound or EASY SAND Lightweight Setting-Type Joint Compound). Apply a thin, tight scratch coat over the entire working area. Immediately double-back with material from the same batch to a nominal 1/16" to 3/32" thickness.

Start finish troweling as soon as the material has become sufficiently firm to achieve a smooth finish free from marks, voids and other blemishes. Smooth and level the surface with the trowel held flat; use water sparingly to lubricate. Final smooth troweling should be accomplished prior to set as indicated by darkening of the surface.

A variety of textures ranging from sand float to heavy Spanish can be achieved with DIAMOND Veneer Finish when it is job-aggregated with silica sand. The application is the same as for neat DIAMOND Veneer Finish, except that once the surface has been leveled and sufficient take-up has occurred, begin floating the material with trowel, float, sponge or by other accepted local techniques. **Note:** Sand additions will quicken the setting time. The use of USG Retarder may be required to lengthen the set to the normal working range of 60 to 75 minutes.

DIAMOND Veneer Finish also may be textured by skip-troweling. When applying in this manner, eliminate final troweling. When the surface has become sufficiently firm, texture with material from the same batch prior to set.

Monolithic concrete U.S. Gypsum recommends that DIAMOND Veneer Finish be job-aggregated with one-half to one part clean, sharp, fine silica sand. Although this material may be applied unaggregated, the sand promotes good mechanical bond between finish coat and bonder/concrete substrate. The sand-aggregated finish also

builds up material over irregularities, producing a monolithic finished surface without detracting from smooth finishing. The aggregated finish also provides options for sand float or other sand-textured surfaces. **Note:** Delay smooth troweling or texturing until DIAMOND Veneer Finish surface has become sufficiently firm and stiff.

Radiant heat ceilings over gypsum base Apply job-sanded DIAMOND Veneer Finish to a total thickness of 1/4" in two coats over IMPERIAL Gypsum Base. Apply fill coat parallel to and of sufficient thickness to completely cover cables. Do not use cables as a screed; level fill coat with a trowel, rod or darby to fill any low spots or to remove any high ridges. Roughen fill coat with a separate darby or lightly broom prior to set to provide a key for the finish coat. Average fill coat thickness should be 3/16". After fill coat has set and developed sufficient suction, apply finishing coat of job-sanded DIAMOND Veneer Finish to total thickness of 1/4". Note that in good drying weather, sufficient suction will be developed about two hours after fill coat has set; in damp and/or cold weather, the interval could extend overnight unless supplementary heat and ventilation are provided.

Apply finish coat to a thickness of between 1/16" to 3/32" (maximum). Scratch in a tight, thin coat over the entire area, immediately doubling back to full thickness. Fill all voids and imperfections. It is advisable to scratch and double back with the same mix of DIAMOND Veneer Finish. Final-trowel when surface has become firm, holding the trowel flat and using water sparingly. Do not over-trowel. Best results require continuous application to an entire ceiling. Always work to a wet edge. Avoid dry joinings.

Radiant heat ceilings over monolithic concrete Concrete surface must be structurally sound and clean, free of dirt, dust, grease, wax, oil or other contaminants. Coat any metal components in concrete surface to prevent rusting in the plaster. Form ridges must be removed. The surface must be reasonably uniform and level. Fill and level voids prior to installing electric cable and plastering. After filling, treat entire surface with USG™ Plaster Bonder. Then apply DIAMOND Veneer Finish (fill coat mix) as a leveling coat and allow to set.

The temperature of a concrete ceiling with bonding agent and cable applied must be above 32 °F (0 °C) before plastering is started. With the air temperature above 55 °F (13 °C), apply job-sanded DIAMOND Veneer Finish to a total thickness of 3/8" in two coats. Apply fill coat parallel to and of sufficient thickness to completely cover cables. Do not use cables as a screed; level fill coat with a trowel, rod or darby to fill any low spots or remove high ridges. Roughen fill coat with a separate darby or lightly broom prior to set to provide a key for the finish coat. Average fill coat thickness should be 5/16". After fill coat has set and developed sufficient suction, apply finishing coat of job-sanded DIAMOND Veneer Finish to total thickness of 3/8". Note that in good drying weather, sufficient suction will be developed about two hours after fill coat has set; in damp and/or cold weather, the interval could extend overnight unless supplementary heat and ventilation are provided.

Apply finish coat to a thickness of between 1/16" to 3/32" (maximum). Scratch in a tight, thin coat over the entire area, immediately doubling back to full thickness. Fill all voids and imperfections. It is advisable to scratch and double back with the same mix of DIAMOND Veneer Finish. Final-trowel when surface has become firm, holding the trowel flat and using water sparingly. Do not over-trowel. Best results require continuous application to an entire ceiling. Always work to a wet edge. Avoid dry joinings.

Decorating

DIAMOND Veneer Finish can be painted with acrylic or other high-grade latex breather-type paints the day following application if the plaster is completely dry. **Note:** Polyvinyl acetate primers are highly susceptible to moisture and can cause paint delamination when applied over wet plaster finishes. Before applying acrylic or latex breather-type paints, be sure the DIAMOND Veneer Finish surface is dry. If alkyd or oil-based paints are used, the DIAMOND Veneer Finish surface in addition to being dry must also be sealed with a good-quality alkali-resistant sealer.

If wallpaper is to be applied, the surface must be sized before papering. The finish also is nailable with little tendency to spall. When used as a finish over IMPERIAL Veneer Basecoat, DIAMOND Veneer Basecoat, conventional sanded gypsum plaster (RED TOP® Brand or STRUCTO-BASE® Brand), or in a radiant heat ceiling application as described above, additional drying time should be anticipated due to the increased application thickness. When dry, the application can be painted with an acrylic or latex breather-type paint. To achieve a high quality finished surface, the plaster application should be properly sealed before painting. Use of an alkali-resistant sealer is recommended. For specific recommendations consult the specified paint manufacturer. See USG literature PM15 for preparation for painting.

**USG Decorative
Finish System** **Preparation**

Drywall base Hang SHEETROCK® Brand Gypsum Panels in accordance with USG specifications. Apply SHEETROCK® Brand Joint Tape to all joints, using any USG joint treatment system. Apply USG joint compound product to all beads, trims, nails, screws and joints (tapered joints, single-wide width; butt joints, double-wide width). Inside angles should be left with no additional coats of joint compound. Apply SHEETROCK® Brand Primer to all joint compound-treated surfaces to prevent uneven suction. Next, apply USG Plaster Bonder to entire surface.

Gypsum base Hang IMPERIAL Gypsum Base in accordance with USG specifications. Apply IMPERIAL® Brand Glass Fiber Mesh Tape or SHEETROCK Joint Tape, depending on application conditions; see USG literature PM5, "Veneer Plaster Joint Reinforcement Systems," for more information. Apply one coat of IMPERIAL® Brand Basecoat or DIAMOND® Brand Veneer Basecoat; this application should be left under the trowel and not broomed or brushed to create a rough open surface (as is the normal condition for the direct application of a finish coat); after basecoat plaster has set and is dry, apply USG Plaster Bonder to entire surface.

Work area Install and finish wood trim, base, casings and cabinets. Mask and cover all surfaces not to be treated with the USG Decorative Interior Finish System to protect from staining. All areas should be free of direct airflow to protect against dry-out of plaster prior to set. The application of finish is best achieved using a crew of six for the most efficient and economical installation: two people will mask, unmask and clean up trim and surrounding areas; one person will mix the finish material; two people will apply the material and do the initial knock-down troweling; and one person will do the final finish trowelings. The applicators or finisher also will spray on the sealer.

Mixing

Pour appropriate amount of water for type of plaster used (see chart below) into a 5 gal. pail (14" high, 10-1/4" bottom, 11-1/4" top) and add colorant to water per the selected COLORTREND® formula. Use a ruler or pre-marked stick to measure the water to ensure color consistency for subsequent batches. Mix water and colorant using a heavy-duty 450 RPM drill with a drywall blade-type joint compound paddle. Turn drill on and off several times to disperse colorant in the water without splashing, as any loss will cause color variation in the finished material. Slowly add plaster (see chart) and mix for 2-5 min.; plaster is added by volume rather than weight as follows: Fill bucket to the top with powder and turn the drill on and off several times to dampen the material. Repeat this process until the proper amount of material has been added and mixed thoroughly. Normally, three additions will be necessary.

Plaster	Water	Powder
DIAMOND Veneer Finish	6-1/2"	40-45 lbs.
DIAMOND Veneer Basecoat	4-1/2"	60 lbs.
IMPERIAL Basecoat Plaster	4"	60 lbs.
IMPERIAL Finish Plaster	5"	50 lbs.

Mix to slightly thicker-than-normal consistency, increasing or decreasing the addition of dry material as necessary. All mixes should have the same consistency to ensure color uniformity. Use a margin trowel to assess mortar thickness; proper consistency is attained when the material just slides off trowel.

Note: If sand is desired, add up to one volume (a measured 3 lb. coffee can or equivalent) of fine silica sand meeting ASTM C35 to each batch using either DIAMOND Interior Finish or IMPERIAL Finish Plaster. Sand should be added when plaster has nearly reached proper consistency. This quantity of sand will not change the fluidity of the mixture.

Application

Initial application may be executed by one or more plasterers working together to cover a large area or separately on smaller surfaces. Each wall or ceiling must be covered in a continuous application, and joinings of separate mixes must be continued prior to either mix setting. Treat each wall and vaulted ceiling from top to bottom, and angle to angle. Treat each ceiling from angle to angle in a consistent manner.

One-coat semi-smooth texture Apply plaster in short, random strokes of 1-2 ft., leaving lap marks and voids as desired, to a nominal thickness of 1/8" (minimum 3/32"). Cover entire substrate with this application and allow the surface to firm slightly (approximately 20 min.). Lightly draw over the surface with a clean trowel held almost flat. Use short strokes in various directions, knocking down lap marks and bumps to the desired smoothness. Water should not be added, though wiping off build-up with a damp cloth or brush may be necessary to keep the trowel surface clean. Excess water use at this stage will cause discoloration. Allow material to achieve initial

set (about 45 min. after initial application), marked by a color change (browning-out) in various places on the plaster surface. Draw over the surface again lightly with a clean trowel in various directions to further finish the texture. When the entire surface has set, trowel a third time; a minimal amount of water such as lightly misting with a water bottle may be used to help burnish the surface and enhance the finished color. Water must be immediately absorbed by the surface, avoiding any drips or runs.

Two-coat heavy texture Apply first coat to a nominal thickness of approximately 1/8", following directions above for one-coat semi-smooth texture; keep lap marks and voids to a minimum. When approximately half of a batch has been applied, set aside the remainder to apply as the second coat. Apply second coat to a varied thickness of 1/8" to 1/4", using short strokes of 1-2 ft. and leaving lap marks and voids as desired to create a heavy texture.

Note: When using DIAMOND Veneer Finish or IMPERIAL Veneer Finish for a two-coat heavy texture, additional drawing up and trowelling should be done in the same manner as a one-coat semi-smooth finish. When using DIAMOND Veneer Basecoat, IMPERIAL Basecoat Plaster, job-sanded DIAMOND Veneer Finish or job-sanded IMPERIAL Veneer Basecoat, omit drawing up additional trowellings.

Many additional textures are possible using these veneer plaster products including Monterey, Spanish, heavy or light lace, deep relief, stipple, combed, and trowel-fan pattern.

Clean all tools and mixing equipment with water prior to material setting.

Sealer

Once the surface has set and is sufficiently dry, it is ready to receive USG Decorative Interior Finish Sealer. With proper moisture removal, drying can be achieved in as little as 24 hours after plaster application. No signs of wetness should exist on the finish surface.

Before applying sealer, remove blemishes, crumbs, blisters and light ridge marks with 200-grit or finer sand paper or a sanding block. After sanding, wipe surface with a clean, damp cloth to remove dust. During application of the sealer and for at least 48 hours thereafter, the air temperature must be at least 55 °F (13 °C).

USG Decorative Interior Finish Sealer comes ready to use. The product should always be hand-stirred prior to use; never shake or box-mix, as this may introduce air bubbles. Sealer should be applied with low-pressure airless spray equipment, though it may be roller-applied if non-critical light conditions exist and treated areas are back-rolled in one direction. With low-pressure airless spray equipment, use a tip no smaller than 0.015" or larger than 0.023". Hold spray tip 12" to 18" from surface, using a fanning motion at the end of each horizontal pass. When the entire surface has been treated, immediately re-coat the surface in the same manner, with strokes perpendicular (vertical) to the initial application.

The sealer's emulsified resin will initially appear milky white but will dry clear and colorless. Wipe up any drips or puddles immediately with a soft, absorbent lint-free cloth to ensure a uniform coating. Clean mixing containers and tools after use using warm water. Store any unused material in a tightly sealed container.

Product Data **DIAMOND Veneer Finish Coverage (Approx.)**

Conventional Walls and Ceilings

Surface applied to	neat/smooth ft. ² /ton	Sand float finish sanded 1:2 (sand: DIF) ⁽¹⁾ ft. ² /ton	Heavy texture finish sanded 1:1 (sand: DIF) ⁽¹⁾ ft. ² /ton
IMPERIAL Gypsum Base	6,000	4,660	3,500
IMPERIAL or DIAMOND basecoat	5,500	4,330	3,250
Sanded RED TOP or STRUCTO-BASE basecoat	5,000	4,000	3,000
Monolithic concrete	5,000	4,000	3,000

Electric Cable Heat Ceilings

Surface applied to	Fill coat sanded 1:1 (sand: DIF) ⁽¹⁾ ft. ² /ton	1/16" finish coat sanded 1:4 (sand: DIF) ⁽¹⁾ ft. ² /ton	1/16" finish coat sanded 1:1 (sand: DIF) ⁽¹⁾ ft. ² /ton
IMPERIAL Gypsum Base	2,300 (3/16" thick)	5,500	4,500
Monolithic concrete	900 (5/16" thick)	5,500	4,500

(1) Coverage based on one ton of aggregated mixture (combined weight of sand and DIAMOND Veneer Finish).

Specifications

Material: White, mill-prepared plaster finish.
Surface Hardness: 94 lbf. (418 N) required to depress a 10-mm dia. steel ball 0.01" (0.25 mm) into finish coat applied over veneer or sanded gypsum basecoat.
Compliance with Standards: Complies with ASTM C587 and Federal Specification SS-P-00402B, Type VI.
Warning: Store all IMPERIAL Brand Gypsum Base flat. Panels are heavy and can fall over, causing serious injury or death. Do not move unless authorized.
Dry Density: 72-76 lb./ft.² (1.18-1.24 kg/m²).
pH: 12.5.
Setting Time: 55 -75 minutes.
Addition of Aggregate: May be job-aggregated with up to 50 lb. (22.7 kg) of natural, uniform, graded, clean silica sand per 50 lb. (22.7 kg) DIAMOND Veneer Finish.
Storage: Store material in a cool, dry place. Avoid direct sunlight. Maintain temperature above 40 °F (4 °C).
Shelf Life: 3 to 6 months with proper storage.
Availability and Cost: DIAMOND Veneer Finish is distributed throughout the United States. Contact a United States Gypsum Company sales office or sales person for additional information.
Packaging: DIAMOND Veneer Finish is available in 50 lb. (22.6 kg) bags.

Submittal Approvals:

Job Name		
Contractor		Date

WARNING!
When mixed with water, this material hardens and becomes very hot – sometimes quickly. DO NOT attempt to make a cast enclosing any part of the body using this material. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue or amputation of limb. Hydrated lime is strongly alkaline. Direct contact can cause severe damage or chemical burns to the eyes and skin. Inhalation of dust may cause chemical burns or irritation to nose, throat and respiratory tract.

Avoid contact with eyes and skin. Avoid breathing dust. Use in a well-ventilated area or provide sufficient local ventilation. Wash with soap and water after use. Do not ingest. If dusty, wear a NIOSH/MSHA-approved dust respirator. Wear eye protection, alkali-resistant protective gloves, long-sleeved shirts and pants to prevent direct contact. If eye contact occurs, immediately flush thoroughly with water for 30 minutes and seek medical advice. If ingested, call physician. Product information and MSDS: (800) 507-8899 or www.usg.com.

KEEP OUT OF REACH OF CHILDREN.

Trademarks
The following trademarks used herein are owned by United States Gypsum or a related company: DIAMOND, DURABOND, IMPERIAL, RED TOP, SHEETROCK, STRUCTO-BASE and USG. COLORTREND is a trademark of Creanova Inc.
Note
Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for information.

Notice
We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

Safety First!
Follow good safety and industrial hygiene practices during handling and installation of products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

