

DIAMOND Veneer Basecoat Plaster

For economical, workable two-coat residential applications

- Superior workability for faster, easier application.
- Excellent bonding base for a variety of plaster finishes.
- High coverage—as much as 5000 sq. ft. per ton.

DESCRIPTION

DIAMOND Veneer Basecoat Plaster provides quality walls and ceilings for residential construction where the superior strength of IMPERIAL Basecoat Plaster is not essential. Its superior workability provides ease and speed of application to achieve a high production rate with increased coverage. Produces a base that esthetically enhances the finish by providing regulated suction, resulting in exceptional integral bond. Once basecoat is applied and has become firm, surface is raked or broomed to provide a rough and open surface for the finish coat.

DIAMOND Veneer Basecoat Plaster is applied from $\frac{1}{8}$ " to $\frac{3}{8}$ " thickness to IMPERIAL Gypsum Base, to porous concrete block, or to bonding agent on monolithic concrete surfaces. Available only for conventional hand-tool application.

DIAMOND Veneer Basecoat Plaster is formulated to receive a variety of finishes. For applicators who require a hard finish plus the convenience of a single-bag product, DIAMOND Interior Finish Plaster is the appropriate choice. For applicators who require high productivity and the ultimate in workability, one of U.S. Gypsum Company's conventional gauged-lime putty finishes is the appropriate choice: RED TOP Finish Plaster, a mill-mixed product offering single-bag convenience and good workability with minimal hardness; RED TOP, STAR OR CHAMPION Gauging Plaster and Lime; or RED TOP Keenes Cement-Lime-Sand for a sand texture or other types of texture finishes.

ADVANTAGES

Easy mixing. Simply use a standard veneer plaster paddle with an electric drill. Disperses easily to a creamy smooth, lump-free mix.

Excellent workability. Provides ease and speed of application, plus a high production rate with increased coverage.

Uniform set. Formulated to provide a consistent, uniform set-time of 50-60 min. batch after batch.

Superior finishing. Provides uniform quick water removal for easy high production finish coat application, and provides an exceptional bond for all specified finishes.

LIMITATIONS

1. Over interior monolithic concrete, a high-quality plaster bonding agent should be applied before plastering.
2. Gypsum plaster should not be used where it will come in contact with water or excessive moisture.
3. Plaster application on masonry or concrete walls, or ceilings that have been coated with bituminous compounds or other waterproofing agents, is not recommended. Exterior walls should be furred and lathed prior to plastering to prevent seepage and condensation.
4. Basecoat plaster must not die or stop against a hollow metal door frame return. Provision must be made to dampen the trim return vibration by grouting, and by the use of special anchors. The grout must be raked out to allow lath and plaster to be inserted in the frame.



Application of DIAMOND Veneer Basecoat Plaster over IMPERIAL Gypsum Base.



Application of DIAMOND Veneer Basecoat Plaster over masonry or monolithic concrete treated with a bonding agent .



Basecoat surface is left rough and open for finish coat application.

DIAMOND Veneer Basecoat Plaster

ARCHITECTURAL SPECIFICATIONS

Note to Architect

These are abbreviated specifications for veneer basecoat plaster. For additional information on plaster products and application, see other data sheets in this series including P-517 IMPERIAL Tape; SA-920 Plaster Systems; and H-17 Gypsum Construction Handbook.

Part 1: General

1.1 Scope—Specify to meet project requirements.

1.2 Qualifications

All materials, unless otherwise indicated, shall be manufactured by United States Gypsum Company, and shall be installed in accordance with its current printed directions.

1.3 Delivery and storage of materials

All materials, except water and sand, shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to elements. Damaged or deteriorated materials shall be removed from the premises.

1.4 Environmental Conditions

In cold weather, temperature of the building shall be maintained in a uniform range above 55°F. (13°C) for an adequate period prior to application of plaster, while basecoat and finish is being applied, and until finish is dry. Air circulation shall be kept at a minimum level during this period.

Part 2: Products

2.1 Materials

- Basecoat Plaster: DIAMOND Veneer Basecoat Plaster.
- Water: Potable and not containing impurities that affect the setting of gypsum.
- Finish Plaster: Lime and RED TOP, STAR or CHAMPION Gauging Plaster; RED TOP Finish; Lime-Sand-RED TOP Keenes Cement for texture finish; DIAMOND Interior Finish Plaster.

Part 3: Execution

3.1 Apply DIAMOND Veneer Basecoat Plaster according to manufacturer's directions below.

INSTALLATION

Job Environment

Protect product from moisture during storage and on the job. Maintain building temperature in minimum comfortable working range, about 55-60°F. (13-16°C) and air circulation at minimum level, for an adequate period before, during, and following plastering until set plaster is dry.

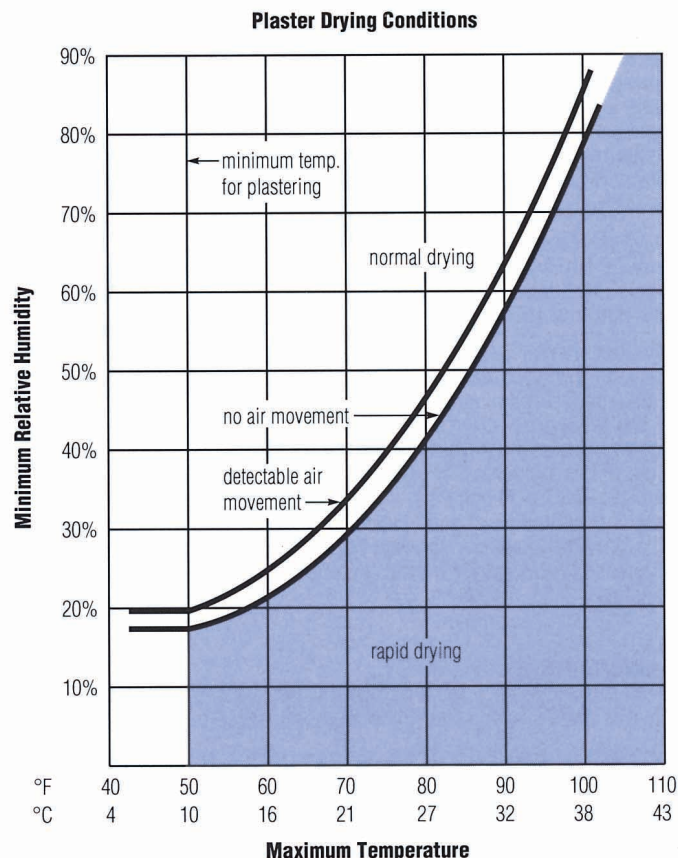
Joint Treatment

IMPERIAL Tape—Apply IMPERIAL Tape over all joints (edges and ends) Do not overlap tape at intersections.

Align pressure-sensitive Type P Tape over joint and press in place over entire length. Then, to eliminate wrinkles and assure maximum adhesive bond, press entire length of tape with a steel finishing knife or trowel; press tape into corners with a corner tool.

Attach Type S Tape with a spring-driven hand stapler using $\frac{3}{8}$ " (9.5 mm) staples. Use two staples at each end of tape; staple remainder at staggered 24" intervals. At wall-ceiling angles, staple tape every 18" to 24" along ceiling edge only; for wall and partition interior angles, staple every 18" to 24" on one edge only, working from top to bottom. Position tape to bridge the joint at all interior corners. For fire-rated assemblies, staple either Type P or Type S Tape 8" o.c.

SHEETROCK Joint Treatment System—SHEETROCK Joint Tape and SHEETROCK Setting-Type Joint Compound (DURABOND) must be used to treat all joints and internal angles when any of the following conditions exist: building temperature-humidity conditions fall in the "rapid drying" area of the graph on the left; metal framing is specified; 24" o.c. wood frame spacing and a single layer gypsum base veneer system is specified ($\frac{5}{8}$ " base with one-coat veneer finish and $\frac{1}{2}$ " or $\frac{3}{8}$ " base with two-coat veneer finish). Allow joint treatment to set and dry thoroughly before plaster application.



Mix the compound in a clean 5-gal. container (plastic is preferred). Use a commercial potato masher or a $\frac{1}{2}$ " heavy duty 200- to 300-rpm electric drill with a cage-type paddle. Drill speed must not exceed 400 rpm. Use the amount of water shown on the bag and always sift the powder into the water to insure complete wetting. Stir vigorously for 3 min.; if lumps remain, allow the mix to soak for a minute or two then restir until smooth. Note: Do not contaminate compound with other materials, dirty water or previously mixed batches. Do not retemper batches

Butter joints with compound using a trowel or steel finishing knife to force compound into the joints. Center SHEETROCK Joint Tape and press it into the fresh compound with trowel held at a 45° angle. Draw trowel along joint with sufficient pressure to remove excess compound. After tape is embedded, apply a skim coat of joint compound to reduce possibility of edge wrinkling or curing. Allow skim coat to set.

Mix and apply a finish coat, feathering 3" to 4" beyond edges of tape. Allow to set and dry before plastering. Plaster prefill is not required over setting-type joint compound.

Mixing

Use a cage-type mixing paddle driven by a heavy duty electric drill producing a minimum speed of 900-1000 rpm (no load). Place approximately 12 to 14 quarts (11 to 13 L) of clean water in a 12 to 15 gallon (45 to 57 L) smooth-side container, and with the mixer operating, slowly add one bag of plaster. Mix for a minimum of three minutes, but no longer than five minutes to disperse all lumps completely. Mixing equipment and all tools must be kept clean.

Application

Gypsum Base—Apply DIAMOND Veneer Basecoat Plaster from $\frac{1}{8}$ " to $\frac{3}{8}$ " thickness. When IMPERIAL Gypsum Base is used, reinforce all joints and interior angles with IMPERIAL Type P or Type S Tape. Embed tape and fill beads with DIAMOND Veneer Basecoat Plaster and allow to set but not dry. After beads and joints have been properly prepared, apply a tight, thin coat of DIAMOND Veneer Basecoat Plaster over the entire area, immediately doubling back with plaster from the same batch to full thickness. Fill all voids and imperfections. Leave surface rough and open by cross raking with a fine wire rake, sponge or fine broom once the surface has become somewhat firm. Allow basecoat to set to provide proper suction for finish coat.

Concrete Block—Surface must be porous and develop proper suction or be scored to provide adequate mechanical bond. Lightly spray walls with water to provide uniform suction. Fill and level all voids, depressions and joints with DIAMOND Veneer Basecoat Plaster and allow to set; then apply subsequent coats as with gypsum base application, leaving final surface rough and open to provide proper bonding of the finish coat.

Monolithic Concrete—Prepare surface with a bonding agent applied according to manufacturer's directions. Fill all voids and depressions with DIAMOND Veneer Basecoat Plaster and allow to set and partially dry. Then apply DIAMOND Veneer Basecoat Plaster as with gypsum base or concrete block. *Important:* As no suction is provided over surfaces treated with a plaster bonding agent, it is essential that the applied basecoat surface be raked or broomed once the material has become firm for a rough and open surface to provide proper suction for the finish coat. Failure to do so may result in delamination of the finish material.

PRODUCT DATA

Material: Gypsum plaster.

Type: Basecoat plaster for standard veneer base layer application.

Coverage (approx.): 4000-5000 ft.²/ton over gypsum base; 3500-4500 ft.²/ton over masonry and concrete surfaces.

Compliance with Standards: Complies with ASTM C58.

Packaging: 79.4-lb. (36 kg) bags.

Shelf Life: 6 months with proper storage.

Ingredients

Contents partially unknown because specific CAS numbers may vary. Consult product MSDS. Contains plaster of paris and may contain any or all of the following: hydrolyzed protein, sucrose, sodium citrate, soap and gypsum.

CAUTION

When mixed with water, this material hardens and then slowly becomes hot. DO NOT attempt to make a cast enclosing any part of the body using this material. Failure to follow these instructions may cause severe burns that may require surgical removal of affected tissue.

Exposure to mixing dust may cause eye, nose, throat or upper respiratory irritation. While mixing wear a NIOSH-approved dust mask. Do not take internally. The use of safety glasses is recommended.

Product safety information: 312-606-4542.

KEEP OUT OF REACH OF CHILDREN.



Smooth trowel finish coat applied over DIAMOND Veneer Basecoat Plaster.



Texture finish alternatives range from sand-aggregated float above to heavy textures, such as luxurious Spanish texture below.



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**Product Information and Literature: 1-800-USG-4YOU
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