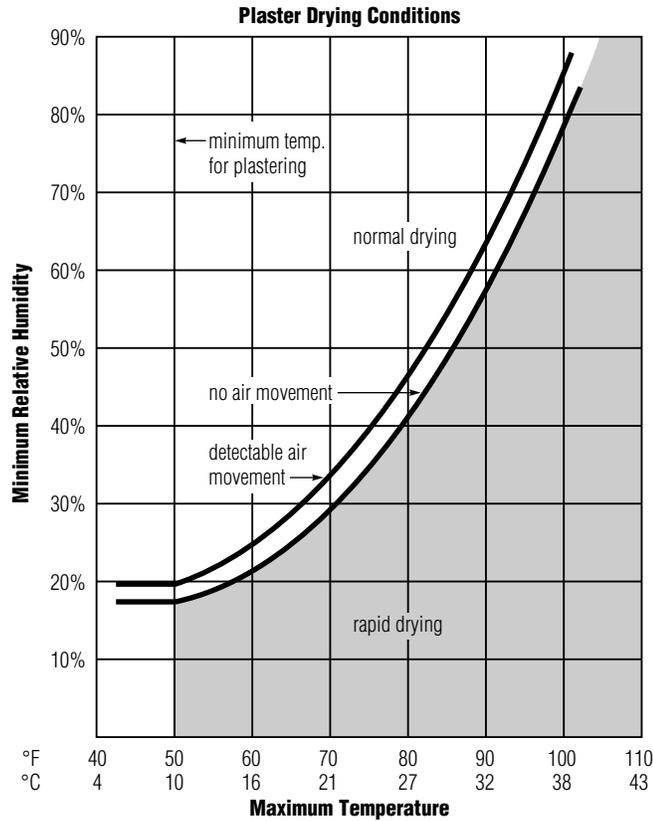


DIAMOND® Brand Veneer Basecoat Plaster

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 application and until proper set has been achieved.
Application	<p>Joint Treatment</p> <p>Glass Fiber Tape Apply IMPERIAL® Brand Tape over all joints (edges and ends) Do not overlap tape at intersections. Align pressure-sensitive Type P Tape over joints and press in place over the tape's entire length. Then, to eliminate wrinkles and assure maximum adhesive bond, press the entire length of the tape with a steel finishing knife or trowel; press the tape into corners with a corner tool.</p> <p>Attach Type S Tape with a spring-driven hand stapler using 3/8" (9.5 mm) staples. Use two staples at each end of the tape; staple the remainder at staggered 24" intervals. At wall-ceiling angles, staple tape every 18" to 24" along the ceiling edge only; for wall and partition 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. For fire-rated assemblies, staple either Type P or Type S Tape 8" o.c.</p> <p>SHEETROCK® Brand Joint Treatment System SHEETROCK® Brand Joint Tape and SHEETROCK® Brand DURABOND® Setting-Type or EASY SAND™ Lightweight Setting-Type Joint Compound 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 below; 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 and 1/2" or 5/8" base with two-coat veneer finish). Allow joint treatment to set and dry thoroughly before plaster application.</p> <p>Mix the joint 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 drywall blade-type mixing 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 ensure complete wetting. Stir vigorously for 3 minutes; 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.</p> <p>Butter the joints with compound using a trowel or steel finishing knife to force the compound into the joints. Center SHEETROCK Brand Joint Tape and press it into the fresh compound with the 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 possibility of edge wrinkling or curling. Allow skim coat to set.</p> <p>Mix and apply a finish coat so that it completely covers the tape and feather it 3" to 4" beyond edges of the tape. Allow it to set and dry before plastering. Plaster prefill is not required over setting-type joint compound.</p>

Application
(continued)



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 gal. (45 to 57 L) smooth-sided 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.

Plastering

Gypsum Base Apply DIAMOND Brand Veneer Basecoat Plaster from 1/16" to 3/32" thickness. Reinforce all joints and interior angles with IMPERIAL Brand Type P or Type S Tape. Embed tape and fill beads with DIAMOND Brand Veneer Basecoat Plaster and allow to set but not dry. When the alternate method of joint treatment is used, the paper tape is embedded in SHEETROCK Brand Setting-Type Joint Compound and then recoated to conceal the paper tape completely. The joint compound is then allowed to set and dry. After beads and joints have been properly prepared, apply a tight, thin coat of DIAMOND Brand 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 the surface rough and open by roughing the surface with a sponge or fine broom once the surface has become somewhat firm. Allow the basecoat to set and partially dry to provide proper suction for finish coat.

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

Application
(continued)

Monolithic Concrete Prepare the surface with USG Plaster Bonder applied according to the directions. Fill all voids and depressions with DIAMOND Brand Veneer Basecoat Plaster and allow to set and partially dry. Then apply DIAMOND Brand Veneer Basecoat Plaster as with gypsum base or concrete block (above). **Important:** As no suction is provided over surfaces treated with the 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.

FIBEROCK Brand Abuse-Resistant Panels Veneer Plasters provide increased resistance to abrasion, indentation and penetration when used over FIBEROCK Brand Abuse-Resistant Panels in commercial and institutional applications such as schools and high-traffic retail locations. Depending on expectations for abrasion, indentation and impact resistance, the finish plaster may also be IMPERIAL Brand Finish Plaster, DIAMOND Brand Interior Finish, RED TOP Finish or any lime-gauging finish combination.

In this two-coat veneer plaster system, DIAMOND Brand Veneer Basecoat Plaster and one of the finishes indicated above are applied over FIBEROCK Brand Abuse-Resistant Panels attached to framing. Space wood or steel framing 16" o.c. or 24" o.c. Position all ends and edges of panels over framing members, except when joints are at right angles to framing members, as in perpendicular application or when end joints are back-blocked. On walls, fasteners are spaced a maximum of 12" o.c. when framing spacing is 24" o.c., or 16" o.c. when framing spacing is 16" o.c. For ceiling applications, nails should be spaced no more than 7" o.c., screws, 12" o.c. Prior to treatment of panel joints, apply USG Plaster Bonder in a continuous film to joint area according to application directions.

Joints of the panels are treated using SHEETROCK Brand Joint Tape and a SHEETROCK Brand Setting-Type Joint Compound (DURABOND or EASY SAND). Provide an additional coat of setting-type compound to fully conceal the tape. Allow to completely dry. When the joints are completely dry, treat the entire wall surface with USG Plaster Bonder according to the application directions. Then apply DIAMOND Brand Veneer Basecoat Plaster 1/16" to 3/32" thick using scratch and double-back technique. This is accomplished by applying a tight, thin coat over the entire area, and immediately doubling back with plaster from the same batch to achieve full thickness. When basecoat plaster is firm, broom the surface to leave it rough and open for finish. With basecoat set and partially dry, apply IMPERIAL Brand Finish Plaster using a scratch and double-back technique. Complete finishing when material is firm. Leave finished surface smooth and dense for decorating.

Note that 5/8" FIBEROCK Brand Abuse-Resistant Panels can be substituted for 5/8" IMPERIAL Brand Gypsum Base, FIRECODE Core, or 1/2" IMPERIAL Brand Gypsum Base, FIRECODE C Core, in any fire-rated design as long as 20-gauge steel framing is used and the above joint treatment procedure is followed.

DUROCK Brand Cement Board Veneer Plasters provide superior abrasion resistance and very good indentation and impact resistance when used over DUROCK Brand Cement Board in commercial and institutional applications such as schools and high-traffic retail locations. Depending on expectations for abrasion, indentation and impact resistance, the finish plaster may be IMPERIAL Brand Finish Plaster, DIAMOND Brand Interior Finish, RED TOP Finish or any lime-gauging finish combination.

In this two-coat veneer plaster system, DIAMOND Brand Veneer Basecoat Plaster and one of the finishes indicated above are applied over DUROCK Brand Cement Board attached to framing. Space wood or steel framing 16" o.c. Install DUROCK Brand Cement Panels with long edges either parallel or perpendicular to the framing and with the rough side of the panels exposed. Fasteners are spaced a maximum of 8" o.c. Prior to treatment of panel joints, apply USG™ Plaster Bonder in a continuous film to joint area according to application directions. Joints should then be treated with SHEETROCK Brand Joint Tape and SHEETROCK Brand Setting-Type Joint Compound (DURABOND or EASY SAND). Joint surfaces must be treated with a separate coat of joint compound to fully conceal the paper tape. When the joint is completely dry, treat the entire wall surface with USG Plaster Bonder according

Application
(continued)

to application directions. Then apply DIAMOND Brand Veneer Basecoat Plaster from 1/16" to 3/32" thickness using a scratch and double-back technique. This is accomplished by applying a tight, thin coat over the entire area, and immediately doubling back with plaster from the same batch to achieve the full thickness. When the basecoat plaster is firm, broom the surface to leave it rough and open for the finish. With the basecoat set and partially dry, apply the finish plaster using a scratch and double-back technique. Complete the finishing when the material is firm. Leave the finished surface smooth and dense for decorating.

Trademarks

The following trademarks used herein are owned by United States Gypsum or a related company: DIAMOND, DURABOND, DUROCK, EASY SAND, FIBEROCK, FIRECODE, IMPERIAL, RED TOP, SHEETROCK, STAR, CHAMPION and USG.

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 or 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 their 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 the date it was or reasonably should have been discovered.

SAFETY FIRST!

Follow good safety practices. Read material safety data sheets and related literature on products before specification and/or installation.

