Gold Bond® BRAND Sta-Smooth® Gypsum Board

DESCRIPTION

Sta-Smooth is a drywall system offering maximum joint strength and easy application. It can be used in any gypsum drywall system where conventional types of gypsum board are recommended. This system features Sta-Smooth Brand gypsum board with a unique edge. The two edge configurations relieve joint deformity problems caused by twisted framing, damaged gypsum board edges, poor alignment and extremes in humidity and temperature. Regular Sta-Smooth Boards are available in 1/2" thicknesses, 4' wide and in customary gypsum board lengths. The Sta-Smooth System is also composed of ProForm BRAND Sta-Smooth Joint Compounds, a hardening-type taping compound and regular Gold Bond tape and finishing compounds.

ADVANTAGES

Improved Durability – The Sta-Smooth System produces a smooth, flat, durable surface that relieves beading, ridging and other joint deformity problems.

Greater Speed – All flat joints in the Sta-Smooth System are filled and taped with any Sta-Smooth Compounds all in one easy operation, the same as conventional gypsum board application methods. Sta-Smooth Compounds or regular compounds can be used to tape inside corners, cornerbeads, and spot fasteners. Regular ProForm finishing compounds or Sta-Smooth compounds are used for the remaining finishing coats.

Easier Handling – The improved edge designs on Sta-Smooth Boards makes handling easier with greater comfort to the hands.

No Special Equipment – All conventional fasteners, adhesives, and gypsum board application tools (T-squares, knives, etc.) can be used to apply Sta-Smooth Boards. Nothing new to buy.

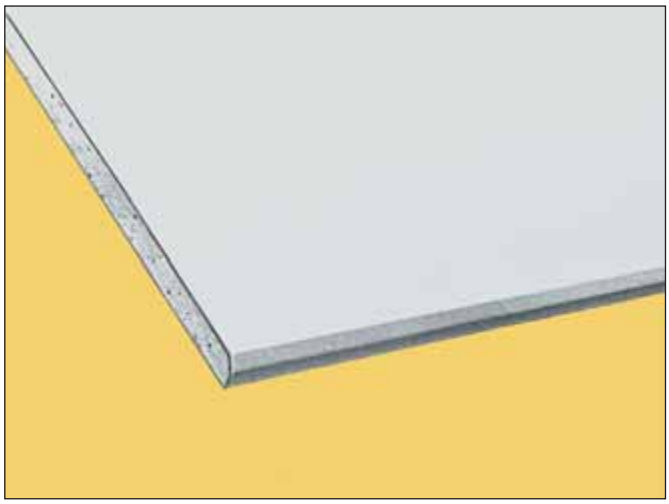
Alignment – Sta-Smooth board with its unique edge (either configuration) allows for easy alignment of the boards in the same way as conventional tapered edge board. The taper is scientifically designed to reduce crowned joints.

Stronger Bond – The bonding area of the Sta-Smooth Joint Compounds are increased with the "V" edge boards. The Sta-Smooth Joint Compound used to bond the joint tape and fill the joints is a hardening-type, high density material with low shrinkage characteristics.

Strength – The Sta-Smooth joint shape and the joint compound are developed to provide greater mass and integral bond for increased strength. Sta-Smooth Joint Compounds add considerable strength which is unaffected by the amount of moisture normally introduced into a structure that could cause ridging or beading with conventional joint compounds.

Cost – If application techniques are followed as recommended, the Sta-Smooth System should cost no more and can cost considerably less than conventional gypsum board drywall joint finishing. The initial savings are immediately demonstrated with reduced travel time that results from this perfected 2-trip, 3-step joint finishing system. Future cost savings will be realized with reduced callbacks.

Better Butt Joints – Recommended with the Sta-Smooth System is an improved technique for providing a smoother, flatter, stronger butt joint. Although this technique could be used in conventional drywall work and produce better butt joints, it is further improved by the use of the high strength Sta-Smooth Compound.



Easier Scheduling – Taping with Sta-Smooth Compounds and applying the first finishing coat, even before the Sta-Smooth used for taping has dried, allows easier job scheduling for the drywall contractor and finisher. This is particularly advantageous under slow drying conditions.

TECHNICAL DATA

SURFACE BURNING CHARACTERISTICS

ASTM E-84
Flame Spread: 15
Smoke Developed: 0

WEIGHTS

1/2" Regular - 1.6 lbs/SF
5/8" Type X - 2.2 lbs/SF
5/8" Type C - 2.2 lbs/SF

DETAILS

THE SECRET IS IN THE SHAPE OF THE JOINT AND THE STRENGTH OF THE COMPOUND

Standard tapered-beveled edge configuration.

Round edge configuration.

The Sta-Smooth System produces a superior joint because the Sta-Smooth Compounds are a hardening-type compound that is not affected by humidity once it has hardened and dried. It also maintains its hard core even with moisture added by the use of the regular joint compounds for the finishing work. Sta-Smooth Compound firmly bonds the tape to the board and the board "V" edges to each other making a strong, rigidized joint.

Consult your local National Gypsum sales representative for edge configuration available in your market.

RECOMMENDATIONS

Note: Sta-Smooth Gypsum Board may be used with any of the Gypsum Drywall Systems described in this Gypsum Construction Guide.

All specifications for the application of gypsum board as described in this literature may also serve for the application of Sta-Smooth Boards. Any deviation from these specifications is as indicated below.

A. BOARD APPLICATION: Position each Sta-Smooth Board so that the long edges are in light contact with the edges of the previous boards. All boards positioned to form butt joints should have a gap approximately 1/16" between the board ends. This spacing can be assured by driving 2 extra fasteners at the end of the board to act as temporary spacers before abutting the next board. When the boards are fastened in place, drive the temporary spacers flush with surface. When gypsum board is applied horizontally, recess all butt joints on the job by shimming the face of the studs (or joists), on both sides of the studs (or joists), on which the joint will fall. The shim can be pressed paper, thickness of building felt or other suitable materials not to exceed 1/16" thickness and as wide as the stud or joist. It should be 6" longer than the butt joint and applied to the face of the stud or joist with staples or nails allowing the shim to extend under the edge of the abutting boards of gypsum board to assure that the board facings remain on the same plane.

B. CORNERS AND OPENINGS: All exterior corners and all openings that require joint treatment should receive protective reinforcement of ProForm Multi-Flex Tape Bead or Steel Cornerbead or Steel Casing Bead as required.

C. TREATMENT OF JOINTS*: All flat Sta-Smooth gypsum board joints are taped with ProForm BRAND Sta-Smooth Compounds, making sure that a sufficient amount of compound is forced into the "V" joint and spread under the tape to form a solid foundation for the finishing coats.**

1. As soon as the Sta-Smooth Joint Compound used for taping has hardened, the first finishing coat can be applied even when the Sta-Smooth Compound is still wet.
2. When the first finishing coat is completely dry the second finishing coat can be applied. Any of the ProForm Joint Compounds may be used for the finishing coats.
3. Sta-Smooth Joint Compounds are recommended for the first coat on nail or screw heads. Regular finishing compounds may be used for subsequent spotting of the fasteners. Sta-Smooth Compounds are also recommended for the first coat on cornerbead and followed by one or more finishing coats as required of regular ProForm Joint or Topping Compounds.
4. The inside corners may be treated with any of the ProForm Joint Treatment Compounds recommended for taping. If a two-trip joint treatment operation is planned, the inside corners are taped with Sta-Smooth Joint Compounds. This will permit finishing one side of the inside corners the first day. Cornerbead is treated with Sta-Smooth Compounds if a two-trip operation is employed.

*Alternate Method: When mechanical tools are to be used for taping joints, Sta-Smooth Compounds are used to fill the "V" joint only. Other ProForm Joint Compounds are then used to bed the tape and finish the joints. (See page 69.)

**Sta-Smooth, Sta-Smooth HS and Sta-Smooth Lite Joint Compounds are recommended for pre-fill or tape/bed coat operations in the Sta-Smooth system.

See page 63, Environmental Conditions and Limitations.

SPECIFICATIONS

THE FOLLOWING PARAGRAPHS ARE FOR INSERTION INTO SECTIONS OF GENERIC SPECIFICATIONS OR GENERIC/PROPRIETARY SPECIFICATIONS COVERING GYPSUM BOARD PRODUCTS. THE NATIONAL GYPSUM PRODUCT NAME FOLLOWS THE GENERIC DESCRIPTION IN PARENTHESES.

PART 2 PRODUCTS

2.01 MATERIALS

A. Gypsum Board: A gypsum core wall board surfaced with paper on front, back, and long edges and complying with ASTM C 1396 (Gold Bond BRAND Gypsum Board).
   1. Thickness: 1/2"
   2. Width: 4'
   3. Length: 6' through 16'
   4. Edge: Beveled Tapered (Sta-Smooth Edge)

B. Fire-Resistant Gypsum Board: A gypsum core wall board with additives to enhance fire resistance of the core and surfaced with paper on front, back, and long edges and complying with ASTM C 1396, type X.
   1. Thickness: 1/2" (Gold Bond BRAND Fire-Shield C Gypsum Board), 5/8" (Gold Bond BRAND Fire-Shield Gypsum Board), or 5/8" (Gold Bond BRAND Fire-Shield C Gypsum Board)
   2. Width: 4'
   3. Length: 6' through 16'
      (1/2" Fire-Shield C Gypsum Board,
      5/8" Fire-Shield C Gypsum Board)
      Length: 8' through 14'
      (5/8" Fire-Shield C Gypsum Board)
   4. Edge: Beveled Tapered (Sta-Smooth Edge)
   5. Edge: Rounded (Sta-Smooth Edge)

C. Exterior Gypsum Soffit Board: A gypsum core soffit board with additives to enhance the sag resistance of the core; surfaced with water repellent paper on front, back, and long edges; and complying with ASTM C 1396 (Gold Bond BRAND Exterior Soffit Board).
   1. Thickness: 1/2"
   2. Width: 4'
   3. Length: 8' through 12'
   4. Edge: Beveled Tapered (Sta-Smooth Edge)

D. Fire-Resistant Exterior Gypsum Soffit Board: A gypsum core soffit board with additives to enhance the fire-resistance and the sag resistance of the core; surfaced with water repellent paper on front, back, and long edges; and complying with ASTM C 1396, type X (Gold Bond BRAND Fire-Shield Exterior Soffit Board).
   1. Thickness: 5/8"
   2. Width: 4'
   3. Length: 8' through 12'
   4. Edge: Beveled Tapered (Sta-Smooth Edge)

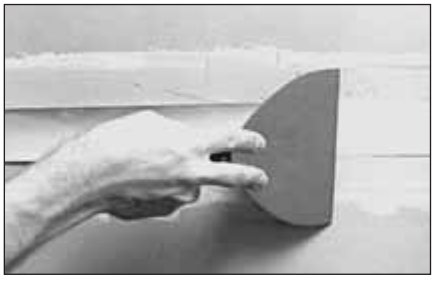
PART 3 EXECUTION

3.01 INSTALLATION

A. General: In accordance with the manufacturer's recommendations, National Gypsum Company *"Gypsum Construction Guide."*

INSTALLATION

Application And Fastening



1. Fill Joint And Bed Tape Simultaneously

2. First Finishing Coat

3. Second Finishing Coat

APPLICATION AND FASTENING

Sta-Smooth Boards may be nailed, screwed or adhesively applied to wood studs or furring, or screwed or adhesively applied to steel studs or furring, using conventional type and length of fastener. All fasteners shall be applied a minimum of 3/8" (maximum 1/2") from the edges and ends of each board. Then treat the joints in three simple steps.

CONVENTIONAL TAPING AND FINISHING

1. Fill Joint And Bed Tape Simultaneously

All flat gypsum board joints are to be filled and taped in one operation with ProForm BRAND Sta-Smooth Compounds, using ProForm Paper Tape in the conventional manner. When Sta-Smooth HS tape is used, the self-adhering fiberglass mesh tape is firmly pressed to the gypsum board, spanning the joints. Sta-Smooth Compounds can then immediately be applied to the joints. The compound must be forced through the tape to fill the channel formed by the "V" edges of the Sta-Smooth gypsum board. All inside corners may be taped using regular ProForm compounds. Sta-Smooth Compounds are used for the first coat on nail or screw heads and will decrease problems with fastener imperfections. Inside angles, first and second finishing coats may be done using regular ProForm joint compounds.

2. First Finishing Coat

As soon as the Sta-Smooth Compound used for taping has hardened, the first finishing coat may be applied on the flat joints even before it is dry. Any ProFrom joint compound may be used for this operation. A second coat may be applied at this time to nail or screw heads, one coat on cornerbead if Sta-Smooth Compound was used for the first coat.

3. Second Finishing Coat

As soon as the compounds used for the previous steps have thoroughly dried, a second finishing coat is applied to all flat joints using ProForm Joint Compound or Topping Compound. A third coat is applied over nail or screw heads and on cornerbead as required. The unfinished side of the inside corners is also finished at this time.

STA-SMOOTH ROUND EDGE REQUIRES PRE-FILLING PRIOR TO BED & TAPING

Application Instructions For Round Edge Sta-Smooth Gypsum Board

1) Mix Sta-Smooth Joint Compound, Sta-Smooth Lite Joint Compound or Sta-Smooth HS Joint Compound as per bag instructions. Care should be taken to mix no more compound than can be applied in the designated set time.

2) Pre-fill all joints formed by the abutting round edge Sta-Smooth Gypsum Boards with Sta-Smooth Compound, Sta-Smooth Lite Joint Compound or Sta-Smooth HS Joint Compounds using a conventional joint finishing knife. Fill joints, level and wipe off excess compound to the lowest level of the taper, allowing enough room for embedding the tape. Allow prefill material to harden prior to application of tape and bed coat.

3) Finish joints in the normal manner.

TAPING AND FINISHING WITH MECHANICAL TOOLS

Taping – Taping tools such as the "banjo" and "hopper" types are recommended for taping the flat joints with Sta-Smooth Compounds and the inside corners with ProForm regular joint compounds or with Sta-Smooth Compounds. **Automatic taping tools are not recommended for use with hardening-type compounds.** Mechanical tools can be used for taping the inside corners when a ProForm regular joint compound is used. When automatic taping tools are used for taping the flat joints, the "V" formed by the edges of Sta-Smooth board on the flat joints and all spaces between the gypsum board edges on butt joints are prefilled with Sta-Smooth Compounds and allowed to harden (30 minutes longer than the set time designated on the bag) prior to taping with a regular ProForm joint compound.

Finishing – Mechanical type finishing tools can be used in the normal manner for the finishing operations of the Sta-Smooth System since conventional ProForm finishing compounds are used.

MIXING INSTRUCTIONS

ProForm BRAND Sta-Smooth Compounds are available in 20, 45, 90 and 210 minute set times. MIX NO MORE COMPOUND THAN CAN BE APPLIED IN THE DESIGNATED SET TIME. Contact your National Gypsum Company Representative for availability. A plastic container is recommended because of its ease in cleaning between batches. Do not use a wood or aluminum bucket. Add the compound gradually to clean water while stirring. Note: Use only fresh, clean water suitable for human consumption. Mix at the ratio of 13-14 pints of water to the 25 lb. bag. Mix the compound free of lumps with a mechanical mixer or by hand. Mechanical mixing is recommended. Allow to stand 5 minutes as a "wetting" period and remix to further improve the working qualities. If a slightly thinner compound is desired, add an additional pint of water, or less, after the compound is thoroughly mixed.