



Georgia-Pacific
Gypsum



ToughRock[®]

Joint System
Products

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What's in a Name?



Quite a lot! When you purchase ToughRock® joint system products from Georgia-Pacific Gypsum, you receive more than you might realize. Georgia-Pacific Gypsum has a full line of joint systems and textures — from pre-mixed compounds to dry powder products for both hand tool and mechanical applications. Backed by the resources of a proven leader in the manufacture of gypsum products, all ToughRock joint system products conform to ASTM Standard C 475. These quality products offer:

- **Smooth Application.** ToughRock joint compounds have a creamy consistency that applies freely, creating smoother surfaces.
- **Secure Bonding.** ToughRock joint treatment compounds recommended for taping provide a tight bond and joints that are as strong as the gypsum board.
- **Low Shrinkage.** ToughRock joint compounds are formulated for minimal shrinkage, which means better jobs and fewer callbacks.
- **Consistently High Quality.** ToughRock joint treatment compounds undergo ongoing testing to maintain uniform and dependable quality that exceeds industry standards.

ToughRock®

ToughRock® Pre-Mixed Joint Compounds

ToughRock® Ready Mix All-Purpose Joint Compound

ToughRock® Ready Mix All-Purpose Joint Compound is a standard vinyl-based, ready-to-use, all-purpose compound that has very uniform consistency. Its controlled formulation results in excellent coverage, easy sanding, resistance to cracking, low shrinkage, and smooth workability. ToughRock Ready Mix also provides an excellent tape-to-gypsum board bond and a strong, hard surface for high traffic areas such as corner bead while saving on-the-job mixing time.

ToughRock® Lightweight and ToughRock® Semi-Lightweight Joint Compounds

ToughRock Lightweight and Semi-Lightweight joint compounds are specially formulated, premium, ready-to-use, multi-purpose lightweight joint compounds. ToughRock Lightweight and Semi-Lightweight joint compounds weigh about one-third less than conventional ready mix compounds yet provide superior working qualities and improved spreadability. ToughRock Lightweight and Semi-Lightweight joint compounds require less effort to apply, produce fewer bubbles and craters, feather out more smoothly for a seamless appearance and shrink as much as 30 percent less so they require less reworking and touch up. ToughRock Lightweight and Semi-Lightweight handle standard tapered joints and corner beads well, sand more easily and clean up faster than conventional joint compounds.

ToughRock® Ready-Mix Topping Compound

ToughRock Ready-Mix Topping Compound is formulated to give superior finishing results. Used for second and third coats over the bedding coat, this product is extremely smooth working, has excellent feathering qualities, low shrinkage and is easy to sand. Topping Compound, however, should not be used to bond tape or for the first coat over corner bead.

Applications Instructions

For detailed application instructions, please refer to GA 216, Recommended Procedure for the Application and Finishing of Gypsum Board, published by the Gypsum Association, ASTM C 840, Standard Specification for Application and Finishing of Gypsum Board and GA 214, Recommended Levels of Gypsum Board Finish.

ToughRock Ready-Mix and ToughRock Lightweight and Semi-Lightweight joint compounds can be used on all joints between gypsum boards to embed joint tape. These products also serve as excellent textures for both gypsum board and concrete walls.

Finishing Gypsum Board Joints

- Apply ToughRock Ready-Mix or ToughRock Lightweight and Semi-Lightweight joint compounds to all joints and embed paper ToughRock™ Tape. Leave a uniform thickness of compound under the tape and smooth off excess material.
- Cover all nail heads and corner beads with joint compound.
- During application, a minimum air, surface and materials temperature of 50°F must be maintained.
- Always allow an application to dry thoroughly between coats.
- When the joint compound has thoroughly dried, cover the taped joint again to a width of about 8". Shear or wipe off the excess, leaving uniform coverage over the tape.
- Spot nail heads and cover corner bead with each subsequent application or as many times as necessary to fill.
- Cover the joints again to a width of about 10-12" and feather off the excess, leaving a smooth, well-filled joint.
- Sand as required to produce the desired finish.
- To minimize joint show-through, prime entire wall or ceiling before painting.

Finishing Concrete

- Before beginning, check surface to ensure it is clean, dry and free from oil and other contaminants. Exposed metal must be treated with a rust-inhibiting paint. Sharp ridges and lumps should be smoothed level. Allow the recommended amount of curing time for new concrete as specified by the manufacturer before finishing.
- Allow to dry thoroughly between coats.
- Seal all finished joints and surfaces with a good quality primer/sealer before texturing or painting.

Texturing

ToughRock Ready-Mix, ToughRock Lightweight or Semi-Lightweight joint compound may be used as supplied or thinned with water to create a wide variety of textures and patterns.



ToughRock® Pre-Mixed Joint Compounds (continued)

- Apply ToughRock Ready-Mix, ToughRock Lightweight or Semi-Lightweight joint compound with roller, sponge or brush for the desired effect.
- Protect woodwork and trim during application.
- Remove all drops and splatters before they harden.
- ToughRock Semi-Lightweight Joint Compound
4.5-gallon pail and 3.5-gallon cartons
23-kg (50.7-lb.) carton
- ToughRock Topping Compound
61.7-lb. pail
48-lb. carton

Coverage

Approximately 61.7 lbs. of ToughRock Ready-Mix Joint Compound or 4.5 gallons of ToughRock Lightweight or Semi-Lightweight joint compound per 500 square feet of gypsum board. Approximately 40 lbs. per 500 ft. of gypsum board for ToughRock Topping Compound.

Availability

- ToughRock Ready-Mix Joint Compound
12-lb. pail
61.7-lb. pail
48-lb. carton
20-kg pail
28-kg pail
27-kg carton
- ToughRock Lightweight Joint Compound
4.5-gallon pail
4.5-gallon carton
17-liter cartons
1-gallon pail

Although these products are pre-mixed to the optimum consistency for hand tooling, Georgia-Pacific Gypsum will also mix orders on request.*

*Please check with your Georgia-Pacific sales representative for availability in your area.

Additional Notes

- Ready-mix joint compound products have a shelf life of nine months from manufacturing date.
- Minimum air, water, mix and surface temperature of 50°F must be maintained in working areas until joints are completely dry.
- Ready-mix products should be protected from freezing.

ToughRock® Dry Powder Joint Compounds

ToughRock® Dry Powder joint compounds may be mixed to desired consistency as needed on the job or pre-mixed at a central location for convenience. Formulated to provide the optimum in application properties and other performance characteristics, ToughRock Dry Powder joint compounds (non-setting type) will retain their consistency for up to 30 days after mixing, if kept in a closed container.

ToughRock® All-Purpose Dry Joint Compound

ToughRock® All-Purpose Dry Joint Compound is formulated as a one-bag system that can be used for bedding tape, finishing over tape, nails, and corner beads, as well as for texturing gypsum board. This product has good topping, bedding, and texturing properties. ToughRock All-Purpose is easy to mix, smooth working and exhibits relatively low shrinkage. The shelf life of dry joint compound is twelve months from date of manufacturing.

Coverage

Approximately 25 lbs. per 400 sq. ft. of gypsum board for joints and 15 to 50 lbs. per 1,000 sq. ft. for texturing, depending on desired finish.

Availability

25-lb. bags

ToughRock® Setting Compounds

Georgia-Pacific Gypsum's ToughRock® Setting Compounds are specially formulated powdered compounds that chemically set (harden) quickly, allowing same-day joint finishing. These quick-setting, very low shrinking joint compounds contain vinyl adhesive that hardens prior to drying, substantially reducing the need for extra coats. The setting action versus drying by evaporation also provides additional bonding and is harder and stronger than conventional joint compounds. Because of the excellent bond and low shrinkage, ToughRock setting compounds are ideal for quick repairs of cracks and holes in most surfaces and as a leveling material on above-grade concrete ceilings to conceal form joints, voids and irregularities.

They can also be used to laminate gypsum boards together or to other surfaces such as above-grade interior masonry or concrete, plaster, expanded foam, plywood walls or other surfaces.

ToughRock setting compounds can be used as a prefill agent with ToughRock® CD Ceiling Board and round-edge gypsum board prior to normal taping and finishing.

These products are available with either a 45-minute (ToughRock 45) or 90-minute (ToughRock 90) setting time. Working time is approximately 60% of setting time. For example, 90-minute setting compound has approximately 60 minute working time. When set, ToughRock setting compounds exhibit extremely low shrinkage as compared to regular drying type compounds. The shelf life of setting compound products is twelve months from date of manufacturing.

ToughRock® Setting Compounds

ToughRock® 90 and ToughRock® 45 setting compounds can be used for applying tape, filling metal corner beads, concealing nail heads, fasteners or other metal accessories, texturing, skim coating, leveling and finishing joints.

ToughRock® Sandable Setting Compounds

ToughRock® Sandable 90, ToughRock® Sandable 45 and ToughRock® Sandable 20 setting compounds feature the same one-day joint finishing/next-day decorating as ToughRock® 90 and ToughRock® 45 setting compounds, yet sand almost as easily as conventional non-setting compounds.

Application Instructions/Finishing Gypsum Board Joints/Repairs

- Apply ToughRock setting compound to all flat joints or repair areas and embed tape. Glass mesh tape 10 x10 per inch is recommended with any of these setting type products.
- Leave a uniform thickness of compound under paper tape and skim off excess material, or apply glass mesh tape and press setting compound into tape against board. Shear or wipe off excess compound.
- Allow application to harden thoroughly before proceeding. No additional drying time is needed to control shrinkage.

Helpful Hints

- Do not mix more material than can be applied in 1 hour or less depending on set time.
- Do not mix with other joint compounds in either wet or dry form.
- Clean tools and mixing equipment after each batch to prevent acceleration of setting time.
- If stiffening occurs (except within the first 10 minutes), setting action is starting and material should be discarded.
- Do not retemper mix. Never add part of a previous batch to a fresh batch.

Coverage

Approximately 50 to 60 lbs. per 1,000 square feet of gypsum board when used for both taping and finishing.

Availability

- ToughRock® 90 and ToughRock® 45 Setting Compounds
33-lb. bags
15-kg bags
- ToughRock® 90, ToughRock® 45 and ToughRock® 20 Sandable Setting Compounds
18-lb. bags
24-lb. bags
11-kg bags

ToughRock® Setting Compounds (continued)

ToughRock® Fire-Halt® Sealant

ToughRock® Fire-Halt® Sealant is a noncombustible, gypsum-based, fast-setting compound developed for firestopping, filling and sealing wall and floor through penetrations such as pipes, ducts, conduit, beams, telephone cables, and for filling flutes in steel decks above walls. It may also be used as a perimeter seal around steel or concrete beams and columns.

Fire-Halt can be used to repair holes, cracks and other openings including gaps between floors and curtain walls and as a perimeter sealant or grout for door frames. It may be used in assemblies designated as “smoke barriers” or those required to meet a sound attenuation STC rating. It seals out smoke and toxic gases, the major causes of building fire fatalities.

Fire-Halt also acts to prevent dust infiltration. In addition, Fire-Halt Sealant can be used in plenums or attics as a “fire-taping” compound with or without tape. Because Fire-Halt is mixed only as needed for the current application, the product is an economical alternative to expensive caulking tube products.

Application Instructions

Where penetrations occur in fire-rated assemblies, the integrity of the system must be maintained. To fully comply with tested procedures, openings in the gypsum board for pipe and conduits should be 1/8” to 4 1/2” larger than the penetrating element.

- In general, use a 4” finishing knife and force a generous amount of Fire-Halt Sealant into the opening.
- Remove excess and smooth compound flush with the surface of the gypsum board.
- If shrinkage occurs, a second coat may be desirable in visible areas. Once compound has set, it may be covered with a second coat even if it is not completely dry.
- Fire-Halt Sealant may be painted following the usual recommended methods for gypsum board finishing.

Coverage

One pound mixed with water will fill approximately 30 cubic inches. A 33-lb. bag will fill approximately 450 cubic inches.

Availability

15-lb. (6.8-kg) pail
33-lb. bag

ToughRock™ Textures and Plaster

ToughRock™ textures can be applied over most solid, properly prepared surfaces including gypsum board, above-grade interior concrete, stucco or plaster. During application, a minimum air, surface and material temperature of 50°F must be maintained during application and until product is dry.

ToughRock™ Wall and Ceiling Texture

ToughRock™ Wall and Ceiling Texture is a specially formulated, non-aggregated, pre-mixed product for light texturing of interior ceilings. Application can be performed using a roller, trowel, sponge or spray machine. Pattern design is left to the applicator's discretion. ToughRock Wall and Ceiling Texture dries to a white finish.

Coverage

Approximately 400 to 1000 sq. ft. per 50-lb. bag depending on desired texture surface.

Availability

50-lb. bags*

*Not available in all locations. Please check with your Georgia-Pacific Gypsum sales representative for availability.

ToughRock™ Regency Ceiling Texture/Polystyrene

ToughRock™ Regency Ceiling Texture/Polystyrene is a specially formulated, dry, white powder containing chopped or round polystyrene aggregate. It is designed, when mixed with water, to be applied to interior ceilings using a spray texture machine. ToughRock Ceiling Texture Spray dries to a rough texture with a bright white finish.

Coverage

Approximately 20.0 m² (225 sq. ft.) per 16-kg. bag (35 lbs.), depending on desired texture finish.

Availability

16-kg. bags (35 lbs.)

Texture Application to Concrete

- Check all surfaces to ensure they are clean, dry and sound with no chalkiness or efflorescence.
- Prime all exposed metal with a rust-inhibitive primer.
- New concrete may need to be aged at least 60 days or as specified by manufacturer.

- Irregularities and form marks must be smoothed. High spots can be ground down. Depressions and holes can be filled with ToughRock Ready Mix Joint Compound. For deep fills, ToughRock® 90 or ToughRock® Sandable 90 Setting Compound is recommended.
- Seal entire surface with a flat, alkyd paint, or a full-strength latex primer/sealer. Allow to dry thoroughly before texturing.
- Spray ToughRock texture in two applications at right angles to each other allowing the first coat to dry before applying the second.

Roll-On Applications (Pre-mixed texture only)

- Check surfaces, including joints, to ensure they are clean and dry. If surface has been painted previously with a glossy paint, roughen it and clean well.
- Apply a flat, alkyd paint or a full-strength latex primer/sealer to new drywall prior to texturing. Allow to dry thoroughly before texturing. No primer is necessary on prepainted surfaces that are properly prepared and in good condition.
- Submerge the roller completely in the texture and work texture into the nap of the roller.
- Roll the texture in different directions to achieve the desired effect. Allow enough time to complete an entire surface in one session. It is easier to blend in an edge before it dries.

PearlCote™ Interior Veneer Plaster

PearlCote™ Interior Veneer Plaster is designed for thin coat application to Veneer Base gypsum board. Designed for residential and commercial construction requiring a fast, economical finish for walls and ceilings as part of the PearlCote Veneer System. PearlCote Interior Veneer Plaster offers one-day installation; a monolithic appearance similar to conventional plaster; a high-strength finish; and superior resistance to ridging and beading of joints, cracking, nail popping, impact and abrasion in high traffic areas. This product sets in one hour and dries to a hard, white uniform finish at a slightly lower in-place cost than two-coat systems. PearlCote Interior Veneer Plaster may be applied directly to properly prepared concrete block.

Accessories



ToughRock™ Joint Tape

2 1/16" width, center-creased paper tape with buffed or sanded surface on both sides. Excellent bonding qualities. Porosity permits rapid drying of joint compound. Easy to use and economical with minimal expansion. Stabilized against varying humidity conditions, it reduces uneven expansion and edge wrinkling. Available in 75', 250' and 500' rolls.

Packaging

Length	Rolls/Box	Weight
5'	24	24 lbs.
250'	20	29 lbs.
500'	10	28 lbs.

Fiberglass Tape

Fiberglass mesh tape should be used only when applied with ToughRock™ Setting Compounds and PearlCote™ Interior Veneer Plaster. If used with other types of joint compounds, joint cracking or other problems may occur.

Tips for Top Performance

Approximate Drying Times

Temperature	Relative Humidity								
	0°c	20°c	40°c	50°c	60°c	70°c	80°c	90°c	98°c
60°F	13 hrs	16 hrs.	20 hrs.	24 hrs.	29 hrs.	38 hrs.	2.5 days	4.5 days	18 days
80°F	6 hrs.	8 hrs.	10 hrs.	12 hrs.	13.5 hrs.	19.5 hrs.	27 hrs.	49 hrs.	9 days
100°F	3 hrs.	4 hrs.	5 hrs.	6 hrs.	8 hrs.	10 hrs.	14 hrs.	26 hrs.	5 days

Joint System Drying Time

Temperature and humidity have a direct effect on the drying time of joint treatment products. While there is very little that can be done to alter temperature and humidity under job conditions, care should be taken to note the average differences in drying times under different atmospheric conditions so that problems may be minimized. Joint treatment products must be thoroughly dry before successive coats and/or final decoration are applied. In all cases, a well-ventilated area assists in proper drying of these materials.

The chart above shows average drying times for joint treatment products under different temperature and humidity conditions.

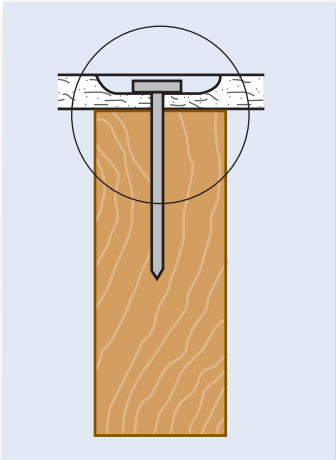
Special Recommendations for Winter Conditions

Cold weather, cold water, cold joint compounds and extremes of high temperature from heat sources deserve special attention. Here are some procedures that can help minimize problems during adverse weather.

- Use round-edge board pre-filled with Georgia-Pacific ToughRock® Setting Compound before taping joints to reduce the incidence of joint beading.
- Use Georgia-Pacific ToughRock Setting Compound for the first coat on corner beads to prevent excessive shrinkage and provide a more secure bond at low temperatures.
- Use Georgia-Pacific ToughRock Setting Compound for embedding tape and the first coat over nail heads to reduce shrinkage and create a better bond at low temperatures. When applying joint compounds, the bond, shrinkage and working properties are all adversely affected at temperatures significantly lower than 50°F. To minimize this problem, mix Georgia-Pacific joint treatment compounds with clean, drinkable water that is 50°F to 80°F. Products should be stored in heated areas. Structures to be taped and finished should be heated to at least 50°F 24 hours in advance of work and subsequently until drying is complete.

After the gypsum board and joint compounds are applied and the building is heated upon completion, there may be shrinkage of the framing members or movement due to warping of the framing or settling of the building. This movement can cause joint beading or nail popping. Once these conditions appear, it is advisable to postpone repairs until one complete heating season has passed.

Tips for Top Performance (continued)



Primary Cause of Nail Popping

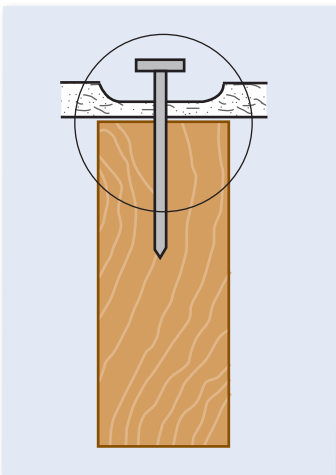
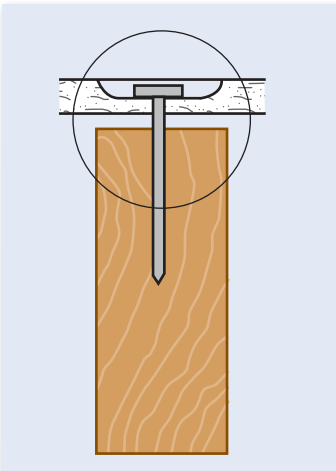
Illustrations 1 through 3 demonstrate what happens when green lumber (not thoroughly dried) is used for framing (Fig. 1). The wood shrinks away from the gypsum board as it dries (Fig. 2). Then the nail pushes out through the gypsum board (Fig. 3).

Safety Precautions

Keep the area adequately ventilated to avoid nuisance dust exposure above the Threshold Limit Value. Wear a NIOSH-approved respirator and dust goggles when dry sanding or when excessive dust is present. Avoid creating excessive dust by using wet sponging in lieu of dry sanding whenever possible.

Read the specific product cautions and advisories that are printed on the product package label. Refer to the product Material Safety Data Sheet (MSDS) available from Georgia-Pacific Gypsum LLC, 133 Peachtree St., Atlanta, GA 30303.

1. Keep away from children.
2. Read all safety information printed on product package labels.
3. Wear a NIOSH-approved respirator while sanding.
4. Refer to Material Safety Data Sheet available by calling 404.652.5119.
5. ToughRock® joint compounds are either limestone- or gypsum-based and do not contain asbestos.



Helpful Hints

Observe these steps in the application of any joint compound.

- All powder formulas should be protected against moisture.
- Each coat of joint compound must be thoroughly dry before the succeeding coat or final decoration is applied.
- Only clean (potable) mixing water should be used. Both water and powder should be at 50°F to 90°F.
- After the joint treatment is thoroughly dry, all surfaces should be sealed or primed with a good quality latex primer/sealer. This imparts a uniform texture and suction over the entire wall or ceiling surface. When the primer/sealer has dried, apply the final decoration per the manufacturer's recommendations.
- If a glossy paint is used as the final decoration or in areas where severe lightning occurs, an application of joint compound should be applied to the entire area of surface to be painted and skimmed off. This skim coat results in a thin layer of joint compound over all surfaces. The skim coat will help prevent shadowing of joints and nail heads that commonly occurs when gloss paints are used. For more detailed information see the Gypsum Association's information on levels of finish for gypsum boards.

Field Problems and Solutions

Joint Treatment Condition	Cause	Solution
<i>Short-Working Compound</i>	Extremely warm, dry weather during application	Make allowance for fast drying. Minimize direct air flow to working area during application.
<i>Putrefaction</i>	Dirty or contaminated buckets. Aggravated by hot, humid weather.	Use only clean mixing pails and tools. Avoid excessive standing of mixed materials.
<i>Excessive Shrinking</i>	Excessive amount of mixing water. Especially prevalent when cold water and cold compound are used.	Use 50°F minimum water and follow manufacturer's instructions.
<i>Edge Cracking</i>	Thick coats of compound under the tape. Fast drying conditions.	Avoid application over hot surfaces near pipes, radiators or auxiliary heating devices. Control ventilation during the drying cycle in hot weather so as to prevent radical changes in temperature. Avoid drafts.
<i>Nail Photographing</i>	Airborne soot or dust particles collecting over nail. Shank of nail will conduct cold; airborne particles collect over this cooler area.	Dependent upon air contaminants. Deposits can be washed off. Insulate to provide uniform temperature.
<i>Tape Photographing</i>	Compound over tape is glazed because tape is high. Deeper fills on either side of tape will not be glazed and will have a rougher texture. Low or high joints.	Press tapes in tightly. A sheer coat will equalize suction and texture. Refinish to level joint.
<i>Starved Joints</i>	Delayed shrinkage/not allowing preceding coats to dry. Insufficient compound applied over tape to fill recess. Oversanding.	Allow sufficient drying time between coats of compound. Keep sanding to a minimum. Apply additional coat.
<i>Blisters in Tape</i>	Insufficient compound under the tape. Tape not initially pressed into good contact with compound.	Open up blister by slitting tape. Fill cut with compound and press tape into place.
<i>Poor Bond</i>	Cold compound, water or surfaces. Freezing of wet compound in pail or on wall after application. Insufficient soaking time of dry compounds.	Maintain minimum 50°F temperature. Protect from freezing. Allow necessary soaking time.
<i>Cracks in Inside Corner</i>	Too much compound over the tape at apex of angle.	Wipe down corners correctly, leaving only small amount or no compound in the apex.
<i>"Burn Through" or Joints Showing Through Paint, "Bleeding Through," "Showing Through"</i>	Painting before the joint system is completely dry. Crowning of the joints will cause a difference in light reflection. Difference in texture and suction between compound and board. Paint with poor hiding properties/thinning paint too much. (Same is true for textures.)	Allow sufficient drying time. Avoid high crowns. Apply primer. Avoid excessive thinning of paints or textures. Apply a skimcoat to equalize suction and texture.
<i>Ridging</i>	Movement of the framing or uneven shrinkage. Aggravated by cold humid conditions.	Let condition develop fully (6 months or 1 heating season). Sand ridge to tape (do not cut tape) and fill concave areas each side. When dry, apply finish coat and redecorate.
<i>Nail Popping</i>	Shrinkage of framing, loose board, misaligned framing or board core crushed in nailing.	Drive a second nail alongside the first, preferably catching the head of the popped nail with the head of the second nail.
<i>Joint Cracking</i>	Fiberglass mesh tape used with joint compounds other than Georgia-Pacific Gypsum setting compounds may result in cracking or other problems.	With standard joint compound, use GP Joint Tape, a paper tape sparked and perforated with a skinned edge and sanded surface on both sides. Fiberglass mesh tape may be used with GP setting compounds.

For technical information, call 1.800.225.6119.



SALES INFORMATION AND ORDER PLACEMENT

U.S.A. Midwest: **1-800-876-4746**
West: **1-800-824-7503**
South: **1-800-327-2344**
Northeast: **1-800-947-4497**

CANADA Canada Toll Free: **1-800-387-6823**
Quebec Toll Free: **1-800-361-0486**

TECHNICAL INFORMATION

Georgia-Pacific Gypsum Technical Hotline
U.S.A. and Canada: **1-800-225-6119**
www.gpgypsum.com

TRADEMARKS

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UPDATES AND CURRENT INFORMATION

The information in this document may change without notice. Visit our website at www.gpgypsum.com for updates and current information.

LIMITATION OF REMEDIES AND DAMAGES

Our sole liability for any product claim shall be limited to reimbursement of the cost of repair or replacement

of the affected product, up to a maximum amount of two times the original purchase price for the affected product. We shall not be responsible under any circumstances for lost profits, damage to a structure or its contents, or indirect, incidental, special or consequential damages. Claims shall be deemed waived if they are not submitted to us in writing within ten (10) days after discovery of a product defect/circumstance giving rise to a claim.