

# SHEETROCK® Brand Setting-Type Joint Compounds



## For one-day drywall finishing

- For interior gypsum panels and exterior gypsum ceiling boards.
- Unique humidity resistance.
- Exceptional bond, low shrinkage.
- Unusual check-crack resistance in heavy fills.
- Choice of setting times.

## Description

These asbestos-free, chemically setting powder compounds for drywall interiors and exteriors permit same-day joint finishing, and, usually, next-day decoration. SHEETROCK® Brand Setting-Type Joint Compounds (DURABOND®) are also ideal for heavy fills and are virtually unaffected by humidity. They provide low shrinkage and superior bond, which make them excellent for laminating gypsum panels to gypsum panels, to sound-deadening boards, and to above-grade concrete surfaces. In addition, SHEETROCK Brand Setting-Type Joint Compounds can be used for filling, smoothing, and finishing interior concrete ceilings and above-grade concrete, and for taping and finishing SHEETROCK® Brand Gypsum Panels, Water-Resistant, under tile in bathroom wall areas. Other uses include finishing joints in exterior gypsum ceiling boards and presetting joints of veneer plaster finish systems.

To meet varying job requirements, a full line of SHEETROCK Brand Setting-Type Joint Compounds has been developed to provide a choice in setting times. The suffix number identifying each SHEETROCK Brand Joint Compound indicates an approximate setting time. DURABOND 20 sets in about 20-30 minutes; DURABOND 45 in 30-80 minutes; DURABOND 90 in 85-130 minutes; DURABOND 210 in 180-240 minutes; and DURABOND 300 in 240-360 minutes.

## Advantages

**Saves time and money.** These compounds provide important labor and material cost reductions. One-day finishing with next-day decoration ensures rapid job completion and earlier occupancy. Choice of setting times aids work flow.

**Quickly mixed for immediate use.** Easy to mix—simply combine with water and stir. Compounds are applied after short soaking period and remixing.

**Resists shrinkage and edge-cracking.** Compounds tolerate small amounts of excess water that would otherwise cause delayed shrinkage. Fill and finish coats can be applied when compound is hard—but still damp—with minimum danger of delayed shrinkage and cracking.

**Resists humidity changes.** Setting rates are virtually unaffected by high humidity or changes in humidity. Application can be made in damp weather when drying-type compounds would delay job completion.

**Multiple use.** Compounds are also excellent for patching and smoothing interior drywall and concrete surfaces because they provide superior bond, low shrinkage, and fast setting-action.

## Limitations

1. SHEETROCK Brand Setting-Type Compounds are more difficult to smooth after drying than conventional drying-type compounds and should be smoothed before set or while they are in a damp but set state.
2. Setting action cannot be delayed or prevented by dilution with water.
3. Not to be applied over moist surfaces or surfaces likely to become moist, or on below-grade surfaces or surfaces projecting outside building structure unless protected from direct exposure to moisture.
4. Before using SHEETROCK Brand Setting-Type Compounds over new interior concrete surfaces, concrete should age 60 days or more. Remove protrusions, ridges, form or parting oils, grease, and efflorescence.
5. Prior to using any epoxy coating over any surface treated with joint compound, consult the epoxy coating manufacturer and follow manufacturer's specific recommendations regarding the preparation or suitability of substrates for the epoxy coating. Many epoxy coatings exert significant shear stress on the substrate as the strong epoxy film shrinks while curing/drying. This stress can cause the bond of the joint compound to fail, resulting in delamination problems.

<b>Directions</b>	<b>Preparation</b>	In cold weather during gypsum panel joint finishing, minimum surface, water, mix, and air temperature of 45 °F must be ensured until joints are completely dry. Adequate ventilation shall be provided to carry off excess moisture.
	<b>Gypsum Panel Joint Treatment</b>	<p>Position and apply SHEETROCK® Brand Gypsum Panels in accordance with manufacturer's recommendations. Mix SHEETROCK Brand Setting-Type Joint Compound according to directions on bag. If using SHEETROCK Brand Gypsum Panels, SW Edge, prefill the "V" grooves formed by abutting tapered eased edges of the panels with DURABOND 45 or 90. Apply compound directly over "V" groove with a flexible 5" or 6" joint finishing knife. Wipe off excess compound that is applied beyond the groove. Allow the prefill compound to harden prior to the next application. Cover joint with a thin layer of compound and embed tape, leaving about 1/32" of compound under feathered edge and a thin layer over the tape. After compound has set, apply second coat, feathering out approximately 2" beyond first coat. After setting, apply third coat, feathering out 2" beyond second coat. After each coat is applied, smooth away any tool lap marks or other imperfections prior to setting action. Finish fastener heads with three coats of joint compound; finish corner bead and inside corners as required with at least two coats, feathered and smoothed out onto panel faces.</p> <p>For priming and decorating with paint, texture, or wallcovering, follow manufacturer's directions for materials used. All surfaces must be dry, dust-free, and not glossy. A prime coat of SHEETROCK® Brand First Coat or a good-quality interior latex flat wall paint with high solids content should be applied undiluted and allowed to dry before decorating. Walls to be covered with wallpaper or vinyl wallcovering should be sealed per manufacturer's recommendations. To improve fastener concealment where gypsum panel walls and ceilings will be subjected to severe artificial or natural side lighting and be decorated with a gloss paint (eggshell, semigloss, or gloss), the gypsum panel surface should be skim-coated with joint compound to equalize suction before painting (see publication J510).</p>
	<b>Use with Veneer Plaster</b>	Apply according to normal procedure. However, when building temperature/humidity conditions may result in rapid drying (see publication PM5), or when steel-framed systems at 24" o.c. with single-layer gypsum base and single-coat veneer plaster finish are specified in either rapid or normal drying conditions, use SHEETROCK® Brand Joint Tape embedded with SHEETROCK Brand Setting-Type Joint Compound (DURABOND 90). A fill or cover coat that completely hides the tape is required. This cover coat must be allowed to set before plastering. Plaster prefill is not required over SHEETROCK Brand Setting-Type Joint Compound.
	<b>Filling and Finishing over Interior Poured Concrete Ceilings</b>	Grind high plane differences in concrete level with adjacent area; also remove any form oil, efflorescence, and greasy deposits. Prime exposed metal with a good rust-inhibitive primer. Fill offsets or voids with a SHEETROCK Brand Setting-Type Joint Compound. Apply additional coats of SHEETROCK Brand Setting-Type Joint Compound as necessary, after each coat has set, but not necessarily dried. After final coat of joint compound has dried, apply undiluted coat of SHEETROCK Brand First Coat or a good quality latex flat wall paint with high solids content over entire surface and allow to dry. For textured ceiling, apply SHEETROCK® Brand Ceiling Spray Texture–QT in a uniform coat at a rate not exceeding 10 ft. <sup>2</sup> /lb.
	<b>Exterior Joint Treatment</b>	Mix SHEETROCK Brand Setting-Type Joint Compound according to directions on the bag. Do not overmix or use in temperatures below 45 °F (7 °C). Prefill joints of SHEETROCK® Brand Exterior Gypsum Board with SHEETROCK Brand Setting-Type Joint Compound. After prefill has set, embed SHEETROCK Brand Joint Tape centered over joint. When compound has set, immediately apply fill coat. Apply SHEETROCK Brand Setting-Type Joint Compound over flanges of zinc control joints, corner beads, and metal trim. Spot fastener heads. After fill coat has set, apply finishing coat of SHEETROCK Brand Setting-Type Joint Compound. Completely cover all joints, angles, beads, control joints, and fasteners. After the SHEETROCK Brand Setting-Type Joint Compound joint has dried, apply one coat of a good-quality oil or latex exterior primer. Then follow with at least one coat of a good-quality latex exterior paint.
	<b>Use with SHEETROCK Brand Gypsum Panels, Water-Resistant</b>	In areas to be tiled, for tapered edge joints, embed SHEETROCK Brand Joint Tape with SHEETROCK Brand Setting-Type Joint Compound (DURABOND 45 or 90). When set, apply a fill coat of DURABOND 45 or 90. Take care not to crown the joint. Wipe excess joint compound from the panel surface before it sets. For butt joints and interior angles, embed SHEETROCK Brand Joint Tape with DURABOND 45 or 90. A fill coat is not necessary. Again, take care not to crown the joint. For fasteners, spot fastener heads at least once with DURABOND 45 or 90.

Fill and seal all openings around pipes, fittings, and fixtures with a thinned-down coat of tile adhesive. For best results, use Type I Ceramic Tile Adhesive that meets ANSI A136.1 both as a sealer and to set the tile. With a 1" brush, apply the thinned compound onto the raw gypsum panel core at cutouts, and allow area to dry thoroughly prior to application of tile. Before compound dries, wipe excess material from the surface of gypsum panels. For areas not to be tiled, embed tape with DURABOND 45 or 90 in the conventional manner. Finish with at least two coats of a SHEETROCK Brand Joint Compound to provide joint finishing for painting and wallpapering.

**Laminating**

Apply SHEETROCK Brand Setting-Type Joint Compound in the prescribed manner to back of face panels to be laminated. Laminate face panels to (base layer panels) (coreboard) using moderate pressure and temporary nailing or shoring to ensure adequate bond.

**Repairing Handball and Racquetball Court Walls**

Repair surface-damaged areas (gouges, scratches, surface imperfections) in handball and racquetball court walls and other interior wall and ceiling surfaces finished with U.S. Gypsum STRUCTO-BASE® and STRUCTO-GAUGE® Gypsum Plasters as follows. Clean surface of dust, residue, and other contaminants. Prepare DURABOND 45 or 90 by mixing into a solution of 1 part water and 1 part USG ACRI-ADD™ 100% Acrylic Add-Mix Fortifier. Use prepared mixture to refinish surface damage. Initial application over deep areas should be set and partially dry prior to application of subsequent coats. Finish to a smooth surface. This same procedure may be used in repair of surface-damaged areas of STRUCTOCORE® Security Wall Systems constructed using STRUCTO-BASE Gypsum Plaster and IMPERIAL® Finish Plaster per publication SA1119.

**Finishing**

For painting and decorating, follow manufacturer's directions for materials used.

**Use With USG Gypsum Accelerator**

USG Gypsum Accelerator (High Strength) when added to SHEETROCK Brand Setting Type Joint Compound (DURABOND) will shorten the setting time. USG Gypsum Accelerator should be sprinkled in dry form into the mixed compound. For hand mixing, dry accelerator can be added either to the dry mix or mixed compound. Never add USG Gypsum Accelerator directly to water or mix it with water to form a solution before adding it to the compound. Doing so will significantly reduce its ability to accelerate the set.

Accelerator Amount		Approximate Set Time (minutes)		
Tablespoon Per Bag	Tablespoon Per Bread Pan	DURABOND 90	DURABOND 45	DURABOND 20
1.0	0.22	40	20	10
2.0	0.44	30	10	
6.0	1.33	20		

- "Bread Pan" volume estimated at 10 cups (80 oz.)
- Wet Mixed Volume of Setting Type Joint Compounds approx. 2.8 gallons (45 cups) per bag.

**Product Data**

**Color:** Natural.  
**Binder:** Vinyl.  
**Filler:** Calcium Sulfate.  
**Dilution (water):** Approximately 24 to 32 qt./100 lb. (50 to 67 L/100 kg). Refer to bag for specific water dilution directions.  
**Density (dry bulk):** 40 lb./ft.<sup>3</sup> (641 kg/m<sup>3</sup>).  
**Freezing Sensitivity:** None after set, but not necessarily dry.  
**Coverage:** Average 72 lb./1000 ft.<sup>2</sup> (35.2 kg/100 m<sup>2</sup>) of gypsum panels.  
**Compliance with Standards:** Meet ASTM Standard C475.  
**Storage:** Close open bags as tightly as possible and store in a dry place.  
**Shelf Life:** Up to 6 months under protected storage conditions.  
**Packaging:** 25 lb. (11.3 kg) tan bags.

**Submittal Approvals:**

<b>Job Name</b>	
<b>Contractor</b>	<b>Date</b>

**WARNING**

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. Avoid inhalation of dust and eye contact. Dust generated by sanding may cause eye, skin, or respiratory tract irritation. Use wet-sanding to avoid creating dust. If dusty, wear a NIOSH/MSHA-approved respirator. Prolonged and repeated exposure to mica may cause lung disease. Wear eye protection. If eye contact occurs flush thoroughly with water for 15 minutes. If irritation persists, call physician. Do not ingest. If ingested, call physician. Product safety information: (800) 507-8899.

**KEEP OUT OF REACH OF CHILDREN.**

**Trademarks:**

The following trademarks used herein are owned by United States Gypsum Company: ACRI-ADD, COVER COAT, DURABOND, IMPERIAL, SHEETROCK, STRUCTO-BASE, STRUCTO-GAUGE, STRUCTOCORE.

**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 installing of all 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.