

# SHEETROCK® Setting-Type Joint Compounds

## DURABOND®



### For one-day drywall finishing

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

### Description

SHEETROCK® Brand DURABOND® Setting-Type Joint Compounds are chemically setting powder compounds for plasterboard interiors that permit same-day joint finishing, and, usually, next-day decoration. They 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 plasterboard to plasterboard (including back-blocking), to sound-deadening boards, and to above-grade concrete surfaces. In addition, DURABOND Joint Compound can be used for filling, smoothing, and finishing interior concrete ceilings and above-grade concrete and for taping and finishing water resistant plasterboard under tiles in bathroom wall areas. Other uses include finishing joints in exterior soffits / eaves, presetting joints in veneer plaster finish systems, and as an adhesive for bonding cove cornices.

To meet varying job requirements, a full line of DURABOND joint compounds has been developed to provide a choice in setting times. The suffix number associated with each formulation 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 joint compounds provide important labour 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 weather conditions that drying-type compounds would delay job completion.

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

### Limitations

1. Setting-type joint 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 DURABOND Joint Compound over new interior concrete surfaces, concrete should cure 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 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.

### Directions

#### Preparation

In cold weather during plasterboard panel joint finishing, minimum surface, water, mix, and air temperature of 8°C must be maintained until joints are completely dry. Adequate ventilation shall be provided to carry off excess moisture.



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**Plasterboard  
Joint Treatment**

Position and apply plasterboard in accordance with manufacturer's recommendations. Mix DURABOND Joint Compound according to directions on bag. Cover joint with a thin layer of compound and embed tape, leaving about 0.8mm of compound under feathered edge and a thin layer over the tape. After compound has set, apply second coat, feathering out approximately 50mm beyond first coat. After setting, apply third coat, feathering out 50mm beyond second coat. After each coat is applied, smooth away any tool lap marks or other 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.

**Filling and Finishing over  
Interior Poured Concrete  
Ceilings**

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 joint compound. Apply additional coats of joint compound as necessary, after each coat has set, but not necessarily dried. For a Level 5 finish, spray a uniform coat of SHEETROCK Brand Tuff-Hide® Primer Surfacer per application requirements.

**Exterior Soffits/Eaves**

Mix joint compound according to directions on bag. Do not overmix or use in temperatures below 8 °C (45 °F). Prefill joints with DURABOND Joint Compound. After prefill has set, embed SHEETROCK Joint Tape centered over joint. When compound has set, immediately apply fill coat. Apply 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 joint compound. Completely cover all joints, angles, beads, control joints, and fasteners. After the 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.

**Use with Water-Resistant  
Plasterboard**

In areas to be tiled, for tapered edge joints, embed SHEETROCK Joint Tape with DURABOND 45 or 90 Joint Compound. When set, apply a fill coat. 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 Joint Tape with DURABOND 45 or 90 Joint Compound. 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 Joint Compound.

When penetrations are made in the plasterboard 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 25mm brush, apply the thinned adhesive onto the raw plasterboard core at cutouts, and allow area to dry thoroughly prior to application of tile. Before the Durabond compound dries, wipe excess material from the surface of the plasterboard. For areas not to be tiled, embed tape with joint compound in the conventional manner. Finish with at least two coats of SHEETROCK Joint Compound (All Purpose, Lightweight All Purpose, MIDWEIGHT™ All Purpose, or Topping) to provide joint finishing for painting and wallpapering.

**Laminating and  
Back-blocking**

Apply DURABOND Joint Compound in the prescribed manner to back of face panels to be laminated or back-blocked. Laminate face panels to base layer panels or back-block panels using moderate pressure and temporary nailing or shoring to ensure adequate bond. Refer to plasterboard manufacturer's technical data for exact back-blocking details.

**Decorating**

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. Walls to be covered with wallpaper or vinyl wallcovering should be sealed per manufacturer's recommendations.

To improve concealment where walls and ceilings will be subjected to severe artificial or natural critical lighting, the plasterboard surface should be sprayed with Level 5 SHEETROCK Brand Tuff-Hide® Primer-Surfacer before painting.

**Use With USG Gypsum Accelerator**

USG Gypsum Accelerator (High Strength) when added to DURABOND Joint Compound will reduce 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 (2.4 l.)
- Wet-mixed volume of DURABOND Joint Compound approx. 10.6 litres (45 cups) per bag.

**Product Data**

**Color:** Natural.  
**Binder:** Vinyl.  
**Filler:** Calcium Sulfate.  
**Dilution (water):** Approximately 49 to 56 L/100 kg. Refer to bag for specific water dilution directions.  
**Density (dry bulk):** 641 kg/m<sup>3</sup>.  
**Freezing Sensitivity:** None after set, but not necessarily dry.  
**Coverage:** Average 16 kg/100 m<sup>2</sup> of plasterboard.  
**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 9 months under protected storage conditions.  
**Packaging:** 20 kg (44 lb. ) tan bags.

**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: Consult your USG sales office or representative for information.

**KEEP OUT OF REACH OF CHILDREN.**

**Trademarks:**

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**Note:**

Products described here may not be available in all geographic markets. Consult your USG sales office or representative for information.

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**SAFETY FIRST!**

Follow good safety and industrial hygiene practices during handling and installation 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.