KNAUF SHEETROCK® DURABOND® 90

Knauf Sheetrock® Durabond® 90 is a chemically setting powder compound for plasterboard interiors that permits same-day joint finishing, and usually, next-day decoration. It is also ideal for heavy fills and is virtually unaffected by humidity. It provides low shrinkage and superior bond, which makes it excellent for laminating plasterboard to plasterboard (including back-blocking), from sound-deadening boards to above-grade concrete surfaces. In addition, Knauf Sheetrock® Durabond® 90 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.

1st Coat | 2nd Coat | Finishing Coat | Sandable | Patching | Skimming | Bonding | Hand & Mechanicals Tools

Product Features

- For interior and semi-exposed exterior wall and ceiling applications
- Unique humidity resistance
- Exceptional bond, low shrinkage
- Unusual check-crack resistance in heavy fills

Advantages

Saves time and money
This joint compound provides important labour and material cost reductions. One-day finishing with next-day decoration ensures rapid job completion and earlier occupancy. Setting time choices aid work flow.

Quickly mixed for immediate use
Easy to mix. Simply combine with water and stir. Compound is applied after short soaking period and remixing.

Resists shrinkage and edge-cracking
Compound tolerates 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 wet weather conditions where ready-mixed compounds would delay job completion.

Multiple use
Compound is also excellent for patching and smoothing interior plasterboard and concrete surfaces because it provides superior bond, low shrinkage, and fast setting action.

Preparation

In cold weather during plasterboard 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.

Applications

- Surfaces must be clean and free from dust.
- The use of paper tape is recommended such as Knauf Paper Joint Tape.
- Ensure there is sufficient amount of compound under the paper tape to provide adhesion.

Directions - Jointing and Finishing

First Coat 150mm/300mm Wide
(Tapered Edge Joint/Square Edge Joint)

1. Using a broad knife, evenly fill the joint recess formed by the edges of the plasterboard with Knauf Sheetrock® Durabond® 90.
2. Centre paper tape along the joint and press into the compound using the broad knife.
3. Draw the broad knife at a 45°angle along the joint with enough pressure to remove excess compound and any air bubbles caught beneath the tape. Leave enough compound under the tape to provide a strong bond.
4. Apply a thin layer of compound over the tape to prevent the tape edge from curling and cracking. Feather the compound from the edges outwards. Cover all fastener heads with spots of compound.

Second Coat 200mm/400mm Wide
(Tapered Edge Joint/Square Edge Joint)

5. When dry, apply a second coat using a plasterer's trowel approximately 50mm (tapered edge joint) or 100mm (square edge joint) wider than the first coat. Spot fastener heads again. Allow to dry.
6. When the second coat has dried, scrape or sand back any excess compound for a smooth and level surface.

Third Coat 250mm/500mm Wide
(Tapered Edge Joint/Square Edge Joint)

7. Apply a finishing coat of compound with a trowel approximately 50mm (tapered edge joint) or 100mm (square edge joint) wider than the previous coat.
8. When dry, using 180 to 220 grit sandpaper in a hand sander, lightly sand to a smooth finish, taking care not to scuff the surrounding plasterboard.
9. Thoroughly clean all tools and equipment after use.

NOTE: Sanding

- All types of plasterboard joints require light sanding before painting.

Exterior Soffits/Eaves

Mix joint compound according to directions on bag. Do not overmix or use in temperature below 8°C (45°F.) Prefill joints with Knauf Sheetrock® Durabond® 90. After prefill has set, embed Knauf Paper Joint Tape centred over joint. When compound has set, immediately apply fill coat. Apply joint compound over flanges of zinc control joints, corner beads, and metal trims. 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 Knauf Paper Joint Tape with Knauf Sheetrock® Durabond® 90. 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 Knauf Paper Joint Tape with Knauf Sheetrock® Durabond® 90. A fill coat is not necessary. Again, take care not to crown the joint. For fasteners, spot fastener heads at least once with Knauf Sheetrock® Durabond® 90.

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 the area to dry thoroughly prior to application of tile. For areas not to be tiled, embed tape with joint compound in the conventional manner. Finish with at least two coats of Knauf ready-mixed compound to provide joint finishing for painting and wallpapering.

Laminating and Back-Blocking

Apply Knauf Sheetrock® Durabond® 90 in the prescribed manner to the 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.

Product Information

Colour	Natural
Setting Time	Setting time of 90 minutes and working time of 60 minutes
Dilution (Water)	Approximately 49 to 56L/100kg. Refer to bag for specific water dilution directions
Density (Dry Bulk)	641kg/m^3
Freezing Sensitivity	None after set, but not necessarily dry
Jointing Coverage	44m^2 (1kg covers 2.2m^2)
Skimming Coverage	Approximately 20m^2/20kg bag at 1mm thickness and skimming viscosity
Compliance with Standards	Meet ASTM Standard C475
Storage	Close opened bags as tightly as possible and store in a dry place
Shelf Life	Up to 9 months under protected storage conditions
Packaging	20kg/bag

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 Knauf Sheetrock® Durabond® 90 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.

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