

Durock™ Tile Membrane



installation guide

DUROCK™ Tile Membrane
DUROCK™ Tile Membrane Adhesive



An easy-to-install tile backer on a roll with superior tile bond.

DUROCK™ brand tile membrane is a thin, water-proof, vapor-permeable membrane used under tile in residential and light-commercial floor, wall and countertop applications. Easy to install, with outstanding tile bond, this membrane provides a high-performance crack-isolation solution when used with DUROCK™ tile membrane adhesive.

Cementitious side (dark)

Back side (light)

Start with Quality Products

DUROCK™ Tile Membrane

Ideal for floor, wall and countertop applications.

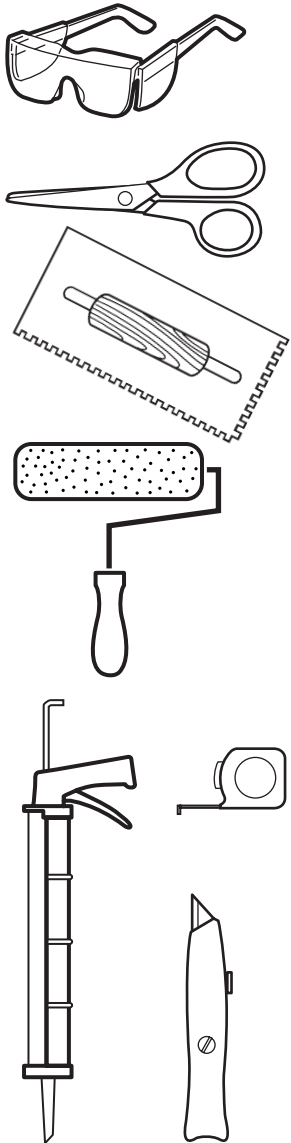
DUROCK™ Membrane Adhesive

A superior adhesive with proprietary acrylic polymer and an additive for mold and mildew resistance, used with DUROCK tile membrane to provide crack isolation.

DUROCK tile membrane may also be installed with the following products, which do not provide crack isolation: Type 1 organic adhesive and latex-modified thin-set mortar.

Tools

In general, common tools like scissors, a straightedge, and a notched trowel or 3/8"-nap paint roller (for applying DUROCK tile membrane adhesive) are used for tile membrane installation. Other tools you may need for installation include: tape measure, utility knife, caulk and caulking gun.



Preparation

1. Ensure that substrate is clean, even, flat, designed to support ceramic tile, and properly installed according to manufacturers' specifications.

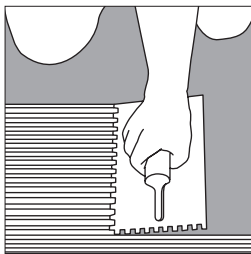


2. Substrate must be free of sealers, waxes, bond breakers, dust and dirt.
3. If DUROCK tile membrane is installed directly over a wood-based subfloor, ensure that all fasteners are seated correctly and there are no uneven joints. Sand or fill if necessary.

Installation of Tile Membrane

1. Precut the full width of membrane to provide a tight fit to the perimeter of the room.
2. Spread adhesive over an area the full width of the sheet and as far as can be comfortably reached.
 - For DUROCK tile membrane adhesive, use a 3/8"-nap paint roller or a 1/16" U-notch trowel.
 - For Type 1 organic adhesive, use a 1/16" U-notch trowel.
 - For latex-modified thin-set mortar, use a 1/8" U-notch trowel. Roll or trowel adhesive in parallel rows across the width or length to avoid trapping air under the membrane.

For installations over non-porous surfaces, such as vinyl, laminate and existing tile—allow adhesive to air-dry, becoming translucent and developing tack, before installing DUROCK tile membrane. Time will vary depending on temperature, humidity and substrate type; however, a minimum of 15 minutes should be allowed.



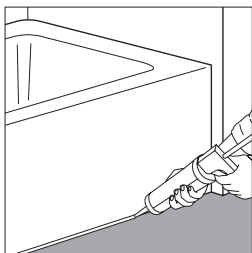
3. Install membrane with cementitious side out. Embed into adhesive, using the flat edge of the trowel or with a non-segmented hand roller. Start in the center of the

sheet and work out towards the edges, removing all air bubbles. Overlap each row 2", making sure that a sufficient amount of adhesive is applied to the joint area.

For wall applications, begin from the lowest point and work toward the highest point of coverage so that all horizontal membrane seams are lapped in a shingle-like manner.



4. Areas unable to receive vertical flashing, such as pipe penetrations and bathroom tubs, should be sealed using a good quality silicone sealant. Run a continuous bead and tool the material to provide continuity to the membrane.



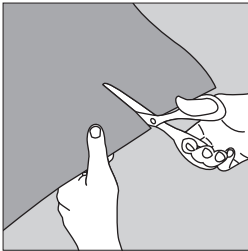
5. Allow membrane adhesive to cure sufficiently (minimum 2 hours for DUROCK tile membrane adhesive, minimum 4 hours for Type 1 organic adhesive or 8 hours for latex-modified thin-set mortar).

6. Install tiles on cementitious (dark) side of membrane with ANSI A118.4 latex-modified Portland cement mortar or ANSI A136.1 Type 1 organic adhesive. Determine correct trowel size based on tile material and size to achieve at least 95% coverage of the average tile contact area.
7. After tile installation, do not walk on floor for at least 48 hours unless walking boards or plywood sheets are used, as per current TCNA Handbook for Ceramic Tile Installation.
8. Select, prepare and install ANSI A118.7 latex-modified or ANSI A118.8 modified epoxy emulsion grout per grout manufacturer recommendations.

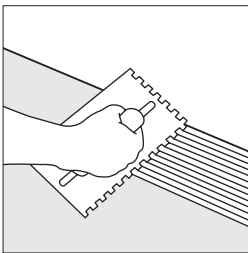
Installation of Flashing

If flashing is required:

1. Cut 3"- 4" strip from end of DUROCK tile membrane roll. Pre-crease the material in half lengthwise, with half to be adhered to the floor and half to the vertical surface. Install all corner pieces first, then fill in between corners around the perimeter as necessary.

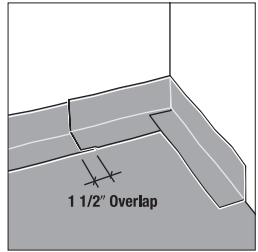


2. Apply Durock tile membrane adhesive with a 3/8"-nap paint roller or a 1/16" U-notch trowel; apply Type 1 organic adhesive or latex-modified thin-set mortar with a 1/16" U-notch trowel.

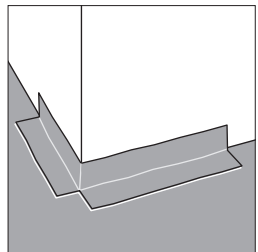


3. Install membrane with the cementitious side out. For outside corners, make a relief cut and press into adhesive.

Use the trowel's smooth edge to fully embed the material.



4. For inside corners, provide a relief cut, but place adhesive where the membrane folds over itself to ensure a water-durable connection. Overlap butt joints by 1 - 1/2" and use the mastic to ensure a water-durable connection. Apply adhesive to the vertical and horizontal legs of the butt joint. Work the material carefully into position and smooth out, using the flat edge of the trowel.



5. Allow membrane to cure adequately before setting tile.

Product Information

See usg.com for the most up-to-date product information.

Trademarks

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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.

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