

Durock™

Tile Membrane Adhesive



For use with Durock™ brand tile membrane to create a crack-isolation system

- Advanced polymer technology
- Solvent-free
- Versatile application (roll or trowel)
- Fast bonding
- Contains an antimicrobial additive

Description

Durock™ brand tile membrane adhesive, a multi-purpose adhesive with an advanced acrylic polymer, no solvents and very low VOC emissions, is designed for use with Durock tile membrane to create a crack-isolation system.

Limitations

1. For interior installations only.
2. Do not install where a moisture problem exists.
3. Do not use when substrate temperature is below 50 °F (10 °C) or above 90 °F (32 °C), or when relative humidity exceeds 65%.
4. Do not apply directly over poured gypsum substrates unless surface has been properly sealed.
5. Moisture content of wood-based subfloors shall not exceed 12%, by use of a pin-type moisture meter designed to check moisture levels in wood and wood products.
6. Moisture content of concrete subfloors shall be determined by calcium chloride test (ASTM F1869). The maximum allowable moisture emission level shall be 3.0 pounds per 1,000 sq. ft. per 24 hours.
7. Moisture content of poured gypsum underlayment floors shall be determined by the polyethylene sheet test (ASTM D4263). No condensation after 16-24 hours indicates the floor is dry and the Durock tile membrane can be installed.

Installation

1. Subfloor must be structurally sound, solid, well fastened, dry, clean and free of dust, oil, grease, tar, paint, wax, curing agents, primers, loosely bonded toppings, loose particles, and any substance that may reduce adhesion.
2. If Durock tile membrane is installed directly over the wood-based subfloor, ensure that all fasteners are seated correctly and there are no uneven joints. Sand or fill if necessary.
3. Spread Durock tile membrane adhesive over an area the full width of the section of membrane being installed and as far as can be comfortably reached, using a U-notch trowel or a paint roller. Minimum trowel size for non-porous substrate is 1/16" x 1/16". Minimum trowel size for porous substrates is 1/8" x 1/8". Roll or trowel adhesive in parallel rows across the width or length to avoid trapping air under the membrane. For roller applications, use a 3/8"-nap paint roller and apply adhesive onto substrate in two coats to achieve adequate coverage; apply second coat immediately over first coat.
4. Required adhesive coverage is approximately 150 sq.ft./gal. to ensure sufficient adhesion between Durock tile membrane and substrate. Slight adjustments may be necessary to account for variations in substrate porosity and smoothness. Do not dilute Durock tile membrane adhesive.
5. Durock tile membrane must be installed within 15 minutes of adhesive application. Only spread adhesive over an area that can be covered by Durock tile membrane within the 15-minute application window. Do not allow adhesive to become transparent and develop tack prior to installation of the membrane. Maximum open time for Durock tile membrane adhesive is 30 minutes. Over vinyl – Do allow adhesive to air-dry for about 15 minutes, becoming transparent and developing tack, before installing Durock tile membrane; complete installation within 30 minutes of adhesive application.
6. Embed membrane, cementitious side up, into adhesive, using the flat edge of the trowel or with a non-segmented hand roller. Overlap each section 2", making sure to apply sufficient adhesive to the joint area.
7. After a sufficient cure, normally less than 2 hours, floor tiles may be installed. After tile installation, do not walk on floor for at least 48 hours unless walking boards or plywood sheets are used.
8. Clean Durock tile membrane adhesive with water when fresh, mineral spirits when dried.

Product Data	Sizes and Packaging	2 gal. (7.5 L) pail.
	Standards	DUROCK tile membrane adhesive is rated for residential and light-commercial applications, per ASTM C627, "Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester."
	Availability and Cost	DUROCK tile membrane adhesive is distributed throughout the United States. Contact a United States Gypsum Company sales office or sales person for additional information.
	Composition and Materials	DUROCK tile membrane adhesive is a multi-purpose adhesive manufactured with a proprietary acrylic polymer, and contains an antimicrobial inhibitor.
	Warranty	Products and systems provided by United States Gypsum Company are warranted to be free from defects in material and workmanship. Contact a United States Gypsum Company sales office for complete warranty details.

Technical Data	Open time	10-25 min. ¹
	Span of pressure sensitivity	2 hours
	Drying time	24 hours
	Cleanup	Use water when adhesive is fresh, mineral spirits when dried.
	Shelf life	12 months when stored in original container at 73 °F (23 °C) in dry, heated area
	Freeze/thaw stability	5 cycles (to 0 °F, -18 °C)
	Flash point	Nonflammable, solvent-free
	Maximum MVER of concrete (ASTM F1869)	3 lbs. per 1,000 sq. ft. (1.36 kg per 92.9 m ²) per 24 hours

1. Open time will vary based on temperature, humidity, substrate, trowel size, and jobsite conditions.

Submittal Approvals:	Job Name	
	Contractor	Date

Product Information
See usg.com for the most up-to-date product information.
Note
Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for information.

Trademarks
The following trademark used herein is owned by United States Gypsum Company: DUROCK.
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 installation of 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.

