

USG Durock™ Brand Waterproofing Membrane



A pliable sheet-applied waterproof membrane and vapor retarder for use with USG Durock™ Brand Shower System

- Thin (12 mil) pliable membrane with minimal buildup at seams
- Extremely durable, yet easy to handle and install
- Low Perm Rating (<0.075) per ASTM E96 Procedure E
- Suitable for waterproofing floors, walls and countertops

Product Description

The USG Durock Shower System Waterproofing Membrane is an innovative membrane that features an oriented HDPE, cross-laminated core that provides strength and tear resistance at much thinner mil thicknesses (12 mil), making it the most pliable, user-friendly membrane in the industry, with the least amount of buildup at seams.

The USG Durock Shower System Waterproofing Membrane is one of the strongest, most tear-resistant membranes on the market. And since it has the lowest perm rating of any load-bearing, bonded waterproofing membrane when tested to ASTM E96 Procedure E (<0.075 perms), it is ideal not only for showers and other wet areas, but for continuous-use residential and commercial steam showers.

The USG Durock Shower System Waterproofing Membrane meets the permeability rating requirement of 0.5 perms or less and can be used in steam showers/rooms in accordance with Tile Council of North America (TCNA) 2013 Handbook for Ceramic, Glass, and Stone Tile Installation (SR613-13 and SR614-13).

Product Data

Sizes and Packaging

- 36 in. x 100 ft. (0.9 m x 30.5 m) roll
- 36 in. x 50 ft. (0.9 m x 15 m) roll
- 36 in. x 25 ft. (0.9 m x 7.5 m) roll
- 5 in. x 50 ft. (13 cm x 15 m) band

Product conforms to ANSI A118.10 American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installation.

Availability

Product is distributed throughout North America. Contact a United States Gypsum Company sales office or sales person for additional information.

Composition and Materials

USG Durock Waterproofing Membrane is an oriented, cross-laminated high density polyethylene film with polypropylene non-woven fabric laminated on both sides.

Warranty and Materials

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.

Installation

Walls (including steam shower walls):

- Select code-approved wall substrate suitable for wet areas.
- Apply unmodified thin-set mortar (as specified in ANSI A118.1) to wall substrate using 3/16 inch x 3/16 inch (5 mm x 5 mm) V-notched trowel or 1/8 inch x 1/8 inch (3 mm x 3 mm) square or U-notched trowel.
- Embed USG Durock Waterproofing Membrane into the mortar using a finishing trowel or drywall taping knife to remove air pockets and to ensure proper installation.
- Overlap all adjoining sections of the membrane by a minimum of 2 inches (51 mm) using unmodified thin-set mortar (as specified in ANSI A118.1). Alternatively, adjoining sections of USG Durock Shower System Waterproofing Membrane can be abutted and then seamed with 5" (13 cm) wide USG Durock Shower System Waterproofing Band.

Installation**Floors:**

- A. Apply unmodified thin-set mortar (as specified in ANSI A118.1) to shower floor using 3/16 inch x 3/16 inch (5 mm x 5 mm) V-notched trowel or 1/8 inch x 1/8 inch (3 mm x 3 mm) square or U-notched trowel.
- B. Embed USG Durock™ Waterproofing Membrane into the mortar using a finishing trowel or drywall taping knife to remove air pockets and to ensure proper installation.
- C. Overlap all adjoining sections of the membrane by a minimum of 2 inches (51 mm) using unmodified thin-set mortar (as specified in ANSI A118.1). Alternatively, adjoining sections of USG Durock Shower System Waterproofing Membrane can be abutted and then seamed with 5" (13 cm) wide USG Durock Shower System Waterproofing Band.

See USG Durock Shower System Installation Guide (CB 598) for complete installation details.

Limitations

1. May not be compatible with certain glass tiles and/or may require special setting materials.
2. Do not install with Type 1 organic adhesive.
3. Prior to setting tile, wait 24 hours minimum before water testing to allow for final set of thin-set mortar and ensure waterproof performance at seams and connections.

Technical Data Table

Property	ANSI/ASTM Test	USG Durock Waterproofing Membrane and Band
System performance	ANSI A118.10	Pass
Thickness	N/A	12 mil (0.3 mm)
Weight (lbs/msf)	N/A	34
Fungus and microorganism resistance	ANSI A 118.10	no mold growth
Seam strength	ANSI A118.10/ASTM D751	>8 lb/in
Breaking strength	ANSI A118.10/ASTM D751	>170 psi
Dimensional stability	ANSI A118.10/ASTM D1204	<0.7%
Waterproofness	ANSI A118.10/ASTM D4068	Pass
Shear strength to ceramic tile and cement mortar	ANSI A118.10/ASTM C482	>50 psi
Water vapor permeance	ASTM E96 (Procedure E)	<0.075

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 United States Gypsum Company sales office or representative for information.

Trademarks

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Safety First!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

