



## USG DUROCK™ BRAND RH-100™ MOISTURE VAPOR REDUCER

- Moisture-tolerant over concrete subfloors with up to 100% RH and up to 14 pH
- Permeance rating (ASTM E96):  $\leq .05$
- Exceeds ASTM F3010 performance requirements
- Can be installed five days after the concrete is poured
- Low viscosity promotes superior penetration and adhesion
- Fast cure—becomes tack-free in as little as four hours, depending on conditions

# USG DUROCK™ BRAND RH-100™

## MOISTURE VAPOR REDUCER

### DESCRIPTION

USG Durock™ Brand RH-100™ Moisture Vapor Reducer is a 100% solids epoxy coating specially formulated for interior use over concrete with high moisture and/or pH levels. USG Durock™ RH-100 Moisture Vapor Reducer manages moisture levels up to 100% RH and prevents alkalinity up to 14 pH in concrete subfloors from negatively affecting underlayments, floor-covering adhesives and floor coverings. Low in viscosity, USG Durock™ RH-100 Moisture Vapor Reducer has excellent substrate wetting capabilities to promote penetration and adhesion. Moisture-tolerant, USG Durock™ RH-100 Moisture Vapor Reducer may be installed over a damp concrete subfloor (no standing or glistening water allowed) 5 days after subfloor installation. For detailed instructions including application restrictions and how to prepare the subfloor, see the *USG Durock™ Brand RH-100™ Moisture Vapor Reducer* submittal sheet (CB670) at usg.com.

### APPLICATIONS

New or existing, on-grade and above-grade concrete slabs, and five-day old concrete. For below-grade installations contact USG.

### VOC EMISSIONS

USG Durock™ RH-100 moisture vapor reducer is defined as a “Low Emitting” material per California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017 (CA Section 01350) for school classroom, single-family residence and private-office modeling scenarios, and meets USGBC’s LEED® v4 emission requirements.

### PRODUCT DATA

<b>MVER (ASTM F1869)</b>	Up to 25 lbs. (11.3 kg)/1,000 sq. ft. (92.9 m <sup>2</sup> )/24 hrs. (for MVERs greater than 25 lbs./1,000 sq. ft./24 hrs., contact USG)
<b>Permeance (ASTM E96)</b>	13 mil.: .050 (grains/h/ft <sup>2</sup> /in. Hg) 16 mil.: .042 (grains/h/ft <sup>2</sup> /in. Hg)
<b>RH (ASTM F2170)</b>	Withstands up to 100% (no standing or glistening water)
<b>Alkalinity</b>	Resists up to 14 pH
<b>Solids Content</b>	100%
<b>Tensile Strength (ASTM D638)</b>	5500 psi (37.9 MPa)
<b>VOC Content</b>	Part A: 0 g/L; Part B: 0 g/L; mixed 0 g/L, ASTM D3960
<b>VOC Emissions (CDPH/EHLB/Standard Method V1.2, 2017 (Sect. 01350))</b>	Low
<b>Approximate Coverage</b>	375 sq. ft. (34.8 m <sup>2</sup> )/3 gal. (11.3 L) kit (minimum thickness)
<b>Approximate Coverage (Sand Broadcast):</b>	Apply first coat at a rate of 600 sq. ft. (55.7 m <sup>2</sup> )/3-gallon (11.3 L) kit at 8 mil. Apply second coat at a rate of 360 sq. ft. (33.4 m <sup>2</sup> )/3-gallon (11.3 L) kit at 13 mil.
<b>Approximate Working Time</b>	20 minutes at 77 °F (25 °C)
<b>Approximate Curing Time<sup>1</sup></b>	4 hours at 77 °F (25 °C)
<b>Kit Packaging</b>	3.5 gal. (US) (13.2 L) pail containing 2 gal. (US) (7.5 L) Part A and 1 gal. (US) (3.7 L) Part B

#### Note

1. Cure times will be extended at lower temperatures and shortened at higher temperatures.

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usg.com  
usgdesignstudio.com

#### PRODUCT INFORMATION

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

#### WARNING!

This product is a severe irritant. Avoid contact with eyes or skin, ingestion and inhalation of mist or vapor. May cause an allergic reaction. Wear splash-proof goggles, nitrile rubber gloves, long sleeved shirts, and work pants. Use a NIOSH/OSHA-approved organic vapor respirator if vapor concentration is expected to exceed 20 ppm for more than 15 minutes. If eye or skin contact occurs, flush affected areas with water for 15 minutes. If irritation occurs or persists, seek medical attention. Wash hands after handling.

For more information call Product Safety: CHEMTREC  
800 424-9300 or find SDSs at usg.com.

#### FOR INDUSTRIAL USE ONLY.

**KEEP OUT OF REACH OF CHILDREN.**

#### TRADEMARKS

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#### SAFETY FIRST!

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



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