

Schluter®-KERDI-DS

BONDED WATERPROOFING AND ENHANCED VAPOR-RETARDANT MEMBRANE

Schluter-KERDI-DS is a pliable, sheet-applied ANSI A118.10-SV waterproofing membrane and vapor retarder with very low water vapor permeance for use in continuous-use steam rooms and similar applications for the direct application of tile. KERDI-DS is installed with Schluter ALL-SET® mortar or other approved mortars.

Features and Benefits

- Sheet-applied polyethylene waterproofing membrane and vapor retarder
- Eliminates water damage which can lead to mold and mildew
- Ideal for waterproofing in conjunction with tiled surfaces on walls and floors
- KERDI-DS is 20-mil thick and features additives to produce a water vapor permeance of 0.19 perms
- Meets the requirements for ANSI A118.10-SV – sheet applied waterproofing membrane

Material

- KERDI-DS features a high-density polyethylene (HDPE) core with non-woven polypropylene anchoring fleece on both sides.
- Material is physiologically safe and does not require special disposal.
- Complies with VOC requirements.

Where to Use

- Wall, floor, and ceiling surfaces where protection against the penetration of water and vapor is required.
- KERDI-DS is suitable for use in continuous-use steam rooms and other applications with similar vapor management requirements.
- Use with Schluter SET, ALL-SET, FAST-SET, or an unmodified thin-set mortar.

Limitations

- Do not use as a roofing membrane.
- Do not use with moisture-sensitive stones, such as green marble.
- Certain glass tiles may not be compatible with bonded waterproof membranes and may require special setting materials. Consult glass tile manufacturer and Schluter-Systems for more information.

Allowable Substrates

- KERDI-BOARD
- Cementitious backer unit
- Gypsum wallboard (not for use in steam rooms)
- Fiber-cement backerboard
- Portland cement mortar
- Concrete (sufficiently cured)



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- Masonry (cement block, brick)
- Magnesium-oxide board (floors only)

Surface Preparation

- All substrates must be clean, stable, dry, and free of any material that may act as a bond breaker (drywall dust, curing compounds, paint overspray, oil, etc.).
- Remove bond breakers mechanically; avoid use of solvents or chemicals.
- Apply and cure only within the ambient air and surface temperatures and humidity ranges of the mortar being used.
- Ensure all surfaces are free of sharp edges, hardware, and protrusions.
- KERDI-DS must not be punctured during or after installation.

Note: Primer may be required for some substrates. Consult your Schluter representative for more information.

Applying

- Contact Schluter-Systems for a copy of the Schluter-Shower System Installation Handbook (USA: 800-472-4588; Canada: 800-667-8746) or download it from our website at schluter.com.



Movement Joints

- KERDI-DS does not eliminate the need for movement joints, including perimeter joints, within the tiled surface. For movement accommodation guidelines, refer to Method EJ171 of the Tile Council of North America Handbook or Method 301MJ in the TTMAC Tile Installation Manual.
- Movement joints shall be provided at all changes in plane, including floor/wall, wall/wall, and wall/ceiling transitions. Schluter-Systems prefabricated movement joint profiles (e.g., DILEX-EKE) provide a maintenance-free alternative to sealant. Fill grout joints with silicone or polyurethane sealants as specified in EJ171 or 301MJ.

Protection

- After installation, protect KERDI-DS from foot traffic, spills, ladders, scissor lifts, etc.
- Mechanical attachments of items like shower doors and stall dividers must not puncture KERDI-DS.
- It is the specifier's responsibility to treat and address all penetrations through the KERDI-DS membrane (e.g., steam inlet, lights, etc.) in

the installation. All penetrations must be treated with KERDI-FIX, KERDI-SEAL-PS/-MV seals, room temperature vulcanizing sealant, or other suitable sealant. Steam inlets must be treated only with room temperature vulcanizing sealant or other suitable sealant. KERDI-FIX is not suitable for use around the steam inlet.

- Keep temperature and humidity within the range requirements of the mortar/grout selected for a minimum of 24 hours after tile installation and grouting.
- Do not store KERDI-DS in direct UV light, such as sunlight.
- Prior to setting tile, wait 24 hours to allow for final set of the mortar before flood testing to ensure waterproof performance of the assembly at seams and connections.

Note: Schluter-Systems strongly recommends a leak test be performed on the connection between the drain and the waste line prior to continuing with the remainder of the installation whenever possible. Refer to local plumbing and/or building codes for any specific requirements in your area. In the absence of, or in addition to, specific building code requirements, Schluter-Systems recommends a 24-hour flood test for the waterproofing system and tile installation within 72 hours.

Thin-set Coverage - Tile-to-Membrane

Trowel.	KERDI/KERDI-DS
1/4" x 1/4" (6 mm x 6 mm)	90 - 100 ft ² (8.4 - 9.3 m ²)
1/4" x 3/8" (6 mm x 9.5 mm)	55 - 65 ft ² (5.1 - 6.0 m ²)
3/4" (19 mm)	30 - 40 ft ² (2.8 - 3.7 m ²)

Values are approximate. Values based on one 50 lb (22.7 kg) bag of mortar.

Industry Standards and Sustainability Designations:

Product Performance Properties	
ANSI A118.10-SV	Pass
ASTM E96 Procedure E at 90% RH	0.19 perms
ICC-ES Report No. ESR-2467 and PMG-1204	Pass
Product Characteristics	
Composition	High-density polyethylene (HDPE) core with non-woven polypropylene on both sides
Color	Orange
Storage Conditions	Membrane should be covered and stored at temperatures above freezing (32°F / 0°C) and away from UV exposure
Working Temperatures	Acclimate to between 40°F to 95°F (4°C to 35°C)
Sustainability Information	
VOC tested	LEED Compliant
SDS	Available



Product Table:



8.1 Schluter®-KERDI-DS		Waterproofing membrane and vapor retarder		
Item No.	Width	Length	Area	Thickness
KERDI-DS	3' 3" – 1 m	98' 5" – 30 m	323 ft² – 30 m²	20 mil

Additional Resources Available Online:

- Schluter-Shower System Installation Handbook
- Installation and Instructional Videos
- Product Estimators

Visit www.schluter.com/Membranes/Waterproofing-KERDI/p/KERDI-DS

Or scan here:



Warranties:

Schluter-Systems products and systems are covered under our warranty program, as applicable. For details and to access Schluter-Systems' warranty documents:

Visit www.schluter.com/warranties

Or scan here:



To obtain hard copies, please contact Customer Service at: 800-472-4588 (USA) or 800-667-8746 (Canada).



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