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DIVISION

Fluid-Applied
Waterproofing
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DIVISION

Waterproofing-
Membrane Tiling
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KeedeShield®

Waterproofing and Crack Prevention Membrane

PACKAGING

- 4 x 1 gallon pails
- 3.5 gallon pail

STANDARDS

- Meets and exceeds the requirements of A.N.S.I. 118.10 and conforms to the requirements of ASTM C-836-89.
- Meets ANSI 118.12 High Performance (up to 1/8" (3mm) for crack isolation membranes.
- Meets Uniform Plumbing Code specifications for use as a shower pan liner. Listed with IAPMO R & T, File #4244 UPC®, ICC-ES ESR-1413.
- Meets low perm requirements for steam room vapor barriers per ASTM E-96 Procedure E.

APPROVED SUBSTRATES

- Concrete
- Stone
- Brick
- Cement Blocks
- Cement/Hardie Backerboard
- Cement Plaster
- Gypsum Underlayments
- Wood
- Metal

KeedeShield® is an easy to use, rapid drying liquid applied waterproofing membrane for crack-isolation and waterproofing applications. KeedeShield can be applied to walls, floors, and most irregular surfaces. KeedeShield is suitable for use on interior or exterior commercial, industrial and residential tile and stone installations. Apply KeedeShield by roller, trowel or sprayer to create a continuous water and moisture barrier with excellent adhesion. KeedeShield bonds to metal, PVC, stainless steel and ABS.

Suggested Areas of Application

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| › Interior surfaces and exterior concrete/masonry surfaces | › Inside planter boxes |
| › Between slabs, such as parking decks, roof decks, or courtyard areas over subterranean parking | › Under terrazzo or tile floors |
| › Exterior walls or foundations and basements or other structures that are to be backfilled | › Under shower pans, kitchen, laundry, and bathroom floors. |
| | › Inside elevated swimming pools or hot tubs. |
| | › Countertops and facades |

Properties

Drying Time	1-1.5 hours depending on ambient conditions	
Coverage (Per Gallon)	Wet Film Thickness	Approximate Coverage
	20 mils	80 sq.ft/gal
	40 mils	40 sq.ft/gal
	50 mils	32 sq.ft/gal
	60 mils	26.7 sq.ft/gal
	100 mils	16 sq.ft/gal
Shelf Life	18 Months - when stored correctly	
Color	Wet - Navy Blue; Dry - Black.	
SKU	Case of 4 x1G: D-KS-4x1	
	3.5G Pail: D-KS-3.5	

All specifications were tested in laboratory conditions: 70°F in a controlled environment using our approved water content. Changing the temperature, or mixing ratios, or the environment can effect these specifications. Call Technical Services if you have any questions.

Advantages

- › KeedeShield is a single component compound that may be used directly from the container with no mixing required
- › Applied cold by airless sprayer, roller, brush, or trowel
- › Superior flexibility of KeedeShield allows expansion and contraction with substrate, without cracking or becoming brittle
- › No catalysts are necessary
- › Non-flammable and solvent free
- › Excellent adhesion in addition to elastomeric qualities makes the use of protective covering prior to backfilling unnecessary (unless backfill contains crushed rock)
- › Exceeds ANSI A118.10

Limitations

- › All surfaces must be completely free of foreign matter and dry
- › Should not be exposed to UV rays or sunlight, either directly or indirectly
- › Do not apply to wet surfaces or surfaces with hydrostatic pressure
- › Should not be used as a finished traffic surface
- › Should not be applied to concrete containing certain curing compounds or other chemical additives which may affect the membrane bond
- › Should not be applied to excessively hot decks which can result in fast curing
- › Do not apply to surfaces that may drop below 40F within 48 hours of application

Conformance to Building Codes

- › Installation must comply with the requirements of all applicable local, state and federal code jurisdiction

Preparation & Application

Surface temperature must be 50-90F during application and for 48 hours after installation. All surfaces must be smooth, dry, sound and free of voids, projections, loose materials, oil, grease, curing compounds, and other foreign matter. Concrete decks should be cured a minimum of 7 days (preferably 28 days) before applying membrane. High, early strength and insulating concretes do not provide suitable substrates. Float finished surfaces should be considered as the minimum finish for best results. KeedeShield is best applied by airless sprayer, however it may also be applied by roller, brush, trowel, or caulking gun. All cracks over 1/16" in width must be filled and covered with KeedeShield. A dry film thickness of 60 mils is recommended over concrete and block surfaces. Extremely porous substrates should be filled prior to coating or receive additional KeedeShield. Coverage to obtain 60 dry mils is approximately 25 sq.ft/gal. Where a two coat application is preferred, two coats at 50 sq.ft/gal per coat are to be applied, allowing 24 hour cure time between coats.

Exterior and wet areas must feature sloping to drains without depressions that would impede drainage. All surfaces must be structurally sound, clean, dry and free from contaminants to ensure a proper bond. Newly applied smooth troweled concrete must be a minimum 28 days old and not be burnished (highly polished) as concrete must absorb. Scarify and flatten existing surfaces ensuring defects are repaired. Treat dormant cracks exceeding 1/8" (3 mm) in accordance with TCNA F125 or TCNA F125A.

Bonding to Lightweight Cement and Gypsum Surfaces

Lightweight or gypsum-based materials must demonstrate a minimum of 2000 psi (13.8 MPa) compressive strength at the designated cure time. The underlayment must be dry and properly cured to the manufacturer's specifications for permanent, non-moisture permeable coverings. Surfaces to be coated must be clean, structurally sound and subject to deflection not to exceed the current ANSI standards. Install expansion joints in accordance with local building codes and ANSI/TCNA guidelines. Prime all surfaces to receive KeedeShield with properly applied manufacturer's sealer (Platform P360, Primer MF, MF Topcoat/Sealer) or with a primer coat of KeedeShield, consisting of 1 part KeedeShield diluted with 4 parts clean, cool water. In a clean pail, mix at low speed to obtain a lump-free solution. Apply the diluted mixture of water and KeedeShield (4-1) using a clean, fine tip broom to scrub in the primer solution. Keep the surface of the substrate wet for at least 15 minutes during application to ensure adequate and even distribution of primer coat. Apply the diluted KeedeShield primer coat to the floor at a rate of 300 ft/gallon (7.5 M/L). Allow 1st coat/application time to dry before application of full strength KeedeShield. For tile installations bonding directly to the substrate strongly recommended to apply at least one full coat of "undiluted" KeedeShield to the "dry" primed area and allow to dry completely before tile installation work is to begin.

Preparation & Application

Vapor Barrier

When used as a vapor barrier, apply one full coat (70 sq. ft. per gallon) where vapor transmission is up to 8 lbs. per 1000 sq. ft. per day and two full coats (70 sq. ft. per gallon each coat) where vapor transmission is up to 12 lbs. per 1000 sq. ft. per day. Refer to ASTM F1869 for more information on Vapor Transmission Testing.

Movement Joint Placement

Do not bridge joints designed to facilitate or accept movement. Carry these kinds of joints through the finished tile work. Clean the joint and install an open or closed cell backer rod to the proper depth, per Tile Council Handbook, EJ171. Next compress sealant into the joint, coating the sides and leaving the sealant flush with the surface. When the sealant is dry, place bond-breaker tape over the joint. Apply a minimum 3/64" (1.2 mm) of KeedeShield over the joint and the substrate, following the instructions provided previously. Install the tile work onto the membrane, but do not bridge the joint. After the tile work is properly set, follow the architect's and manufacturer's instructions to fill the joint with a specified color sealant.

Surface Preparation

KeedeShield at Drains

Drains should have a clamping ring with open weep holes for thin-set application. Apply the membrane to the bottom of the flange. The drain should be fully supported, without movement, and should be even with the plane of the substrate. Apply the KeedeShield membrane around drain. Embed a 12" x 12" (30 x 30 cm) fiberglass mesh into the membrane, making sure it does not obstruct the drainage weep holes. Then apply an additional coat of the membrane and smooth. After curing, clamp the upper flange onto the membrane and tighten. Use a silicone caulk around the flange where the membrane and the upper flange make contact. A toilet flange can be handled in much the same manner.

KeedeShield as Crack Isolation Membrane

Force KeedeShield into cracks with the flat side of the trowel, roller or brush. Using a 3/16"-1/4" (5-6 mm) V-notch trowel or 3/8" (9.5 mm) rough textured roller. Use the flat side of the trowel and flatten the ridges to form a continuous, even coat of material. The membrane should extend a minimum of the diagonal measurement of the tile beyond both sides of the crack. Gaps between plywood sheets and where floors meet walls must also be prefilled with suitable vertical patch (PrepPro Feather mixed low water). For continuous crack isolation, cover the entire substrate with KeedeShield applied at a rate of 100 sq. ft. per gallon. To meet the requirements of ANSI A118.12, apply two coats of KeedeShield at a rate of 50 sq. ft. per gallon each coat.

KeedeShield as General Waterproof Membrane (ANSI 118.10)

Cracks to 1/8" (3 mm) should be prefilled before beginning the waterproofing application. Lightly dampen all porous surfaces. Use a 3/4" (19 mm) rough textured synthetic roller or a 3/16"-1/4" (56 mm) V-notch trowel and heavily precoat the corners and the intersections where the floors and walls meet, extending 6" (15 cm) on either side. For extra protection, embed a 6" (15 cm) wide fiberglass mesh into the membrane for changes of plane and for gaps 1/8" (3 mm) or greater. Apply each coat of KeedeShield at a rate of 110 sq ft per gallon. If using a trowel, spread the material with the trowel held at a 45° angle, and then flatten the ridges. If using a roller, apply a continuous, even film with overlapping strokes. An airless sprayer may be used for the waterproofing application. The sprayer must produce between 1900 - 2300 psi, with a flow rate of 1.0 - 1.5 GPM and must have a tip orifice size of 0.025 - 0.029. Apply a continuous film with overlapping spray. The membrane appearance is dark blue when wet and dries to a black. It typically takes 1-1.5 hours to turn completely black. After the first coat turns black, inspect the film for integrity and fill any voids or pinholes with additional material. Apply a second coat at right angles to the first coat. To meet the requirements of IAMPO, Two coats should be applied at a rate of 80 sq. ft. per gallon each coat. In all cases the wetfilm thickness should not exceed 40 mils.

Product Application

Curing of Product

KeedeShield is dry when it turns solid black, with no visible blue color. Typical drying time is 1-1.5 hours. Cool temperatures, high humidity or damp conditions can extend the drying time to 12 hours. After the second coat is applied and both coats are fully cured, the application area can be flood tested.

Protection

To protect KeedeShield from damage after application and before installation of insulation or a wearing course, the membrane should be protected as soon as it cures with a suitable protection boards or sheet membrane. Protect from construction traffic, not for use as a wear surface.

If tile or stone will not be set immediately after curing, protect the membrane from rain, inclement weather and potential construction traffic damage. If delays longer than 72 hours are expected, cover and protect the membrane from extended direct sunlight (UV exposure). Care should be taken to prevent the application from becoming soiled or punctured during and after application.

Tile and Stone Installation

Install tile or stone with a Platform Performance Flooring Systems polymer modified mortar (or equivalent) that meets ANSI A118.4 or A118.15 standards based on application requirements.

Maintenance

If KeedeShield is damaged, it can be repaired by cleaning the surface and recoating it with KeedeShield.

Installation Instructions

Embedding KeedeShield Reinforced Fabric

- Measure and cut the KeedeShield Reinforced Fabric to the required length using scissors or a utility knife.
- While the waterproofing layer is still wet, embed the KeedeShield Reinforced Fabric into the liquid applied waterproofing. Start at one end and work your way to the other to ensure it is fully embedded without air pockets.
- Use a trowel or squeegee to smooth out the fabric and ensure good contact with the liquid waterproofing, removing any air pockets or wrinkles.

Seam Overlaps

- When overlapping fabric at seams, ensure a minimum overlap of 2 inches.
- Apply additional KeedeShield Liquid Waterproofing at the overlap areas and firmly press the KeedeShield Reinforced Fabric into the wet waterproofing layer.

Second Coat of Waterproofing

- Once the fabric is fully embedded, apply a second coat of KeedeShield Liquid Waterproofing over the top of the KeedeShield Reinforced Fabric, ensuring full coverage.
- Smooth out any excess waterproofing with a trowel or squeegee.

Final Smoothing

- Use a trowel or squeegee to smooth the surface and ensure a uniform, even layer of waterproofing over the fabric.

Safety

Avoid contact with skin where possible. Wash exposed skin areas promptly with water. Avoid inhalation of vapor, it may cause skin sensitization or other allergic responses. Wear a NIOSH compliant vapor respirator, especially in poorly ventilated areas. If product gets in eyes, rinse immediately and repeat. Get prompt medical attention. KEEP OUT OF REACH OF CHILDREN.

Clean-Up

Clean tools and hands with water before the material dries. Clean all spray equipment immediately after use. Dispose waste or excess material in accordance with all local, state and federal regulations.

Storage

Protect from freezing. Store in a cool, dry area.

LIMITED WARRANTY

The suitability of the product for an intended use shall be solely up to the user. Job site conditions including surface preparation, temperature, humidity, and tile quality can adversely affect the products performance. Warranties of merchantability and of fitness are hereby disclaimed. Manufacturer and seller assume no liability for consequential damages. Manufacturer agrees to replace or pay for any material proved to be defective, with no liability beyond the purchase price of defective materials. This warranty is in place of all other warranties, expressed or implied. No person has the authority to change these items and there are no warranties except as herein stated.

Dependable, LLC warrants to the initial purchaser only that the goods sold hereunder will be free from defects in material and workmanship and, except as otherwise set forth herein, will conform to the specifications provided. If any failure to meet this warranty appears within one year from the date of shipment of the goods, on the condition that Dependable, LLC, will correct any such failure by either replacing or repairing any defective goods, at Dependable, LLC's option.

The preceding paragraph sets forth the exclusive remedy for all claims based on failure of or defect in the goods sold hereunder, whether such failure or defect arises before or during the warranty period and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise. The forgoing warranty is exclusive and is in lieu of all other warranties whether written, oral, implied or statutory.

24 HOUR EMERGENCY: CHEMTREC®

1-800-424-9300

NON-TOXIC and NON-FLAMMABLE

Keep container closed and keep away from children. May cause slight eye abrasion or irritation if spilled or rubbed in eyes. Flush thoroughly with water.

If taken internally, call a physician.

Published technical data & instructions are subject to change without notice. Please contact Platform Performance Flooring Systems for the most current technical data, safety data & application instructions.

Technical Assistance:

Visit our website: platformperformance.com or call

1-800-227-3434

