

6/7/22

Caliber Collision
“Lee’s Summit, MO”
Misc Concrete Submittal

Architect Stamp

GC Stamp

OXFORD ARCHITECTURE

NO EXCEPTIONS



EXCEPTIONS NOTED



NOT ACCEPTED / RESUBMIT



BY: BRAD M. DATE: 06.07.2022

NO EXCEPTIONS BY ARCHITECT SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY
FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS.
GC IS RESPONSIBLE FOR CONFIRMING ALL DIMENSIONS WITH FIELD CONDITIONS
AND FINAL QUANTITIES.

DEERFIELD CONSTRUCTION CO., INC.
GENERAL CONTRACTORS

REVIEWED BY: Brett Bitzer

DATE: June 7, 2022

**Review is for general compliance and general conformance
with design concept. Review does not relieve
subcontractor from compliance with requirements of the
drawings and specifications. Subcontractor is responsible
for quantity, dimensions, coordination and performance.**

MasterKure® ER 50

Evaporation Reducer

FORMERLY CONFILM®

PACKAGING

- 1 gallon (3.8 L) cans
- 5 gallon (18.9 L) pails
- 55 gallon (208 L) drums

YIELD

One gallon (3.8 L) of MasterKure ER 50 mixed with nine gallons (34.1 L) of water yields 10 gallons (37.9 L) of sprayable solution. 10 gallons of MasterKure ER 50 solution (1 to 9) should cover 2,000–4,000 ft² (186–372 m²) of fresh concrete. If more than one application is required, e.g., in adverse drying conditions, additional material will be required.

STORAGE

Store in unopened containers in a clean, dry area between 40 and 90° F (4 and 32° C). Keep from freezing.

SHELF LIFE

1 year when properly stored

VOC CONTENT

10 g/L less water and exempt solvents

DESCRIPTION

MasterKure ER 50 evaporation reducer reduces surface moisture evaporation from freshly placed concrete, especially in rapid drying conditions, such as high concrete surface or ambient temperatures, low humidity, high winds, direct sunlight, or work in heated interiors during cold weather.

PRODUCT HIGHLIGHTS

- Does not affect concrete strength (early and ultimate), abrasion resistance, and durability
- Reduces or eliminates crusting, stickiness, and underlying sponginess resulting in a consistent surface
- Allows reduced slump and water content in concrete to facilitate proper hydration of high-strength mixtures
- Reduces surface moisture evaporation approximately 80% in wind and approximately 40% in sunlight to reduce plastic shrinkage cracking and wind crusting
- Prolongs surface plasticity for longer working time in hot, dry, or windy conditions

APPLICATIONS

- Concrete surfaces where the evaporation rate exceeds the bleed rate
- Air-entrained and non-air-entrained concrete
- Silica-fume concrete
- Concrete containing fly ash

SUBSTRATES

- Interior or exterior
- Horizontal and vertical surfaces

INDUSTRIES/SECTORS

- Commercial
- Residential
- Infrastructure
- Institutional
- Industrial

HOW TO APPLY

APPLICATION

1. Agitate MasterKure ER 50 before mixing with water. Depending on the application, mix at a ratio of up to 1 part MasterKure ER 50 concentrate to 9 parts water. Re-agitate mixed materials before applying.
2. Apply with a constant-pressure or industrial sprayer.
3. MasterKure ER 50 forms a monomolecular film when sprayed onto the concrete surface immediately after screeding or between finishing operations (as needed). The protective shield of MasterKure ER 50 usually lasts as long as the concrete remains plastic, despite succeeding floating operations. When applying surface hardeners using the delayed application method, use MasterKure ER 50 after screeding. When applying surface hardeners using the early application method, use MasterKure ER 50 only after the specified quantity of dry shake has been incorporated into the concrete by floating and after the first floating operation, if necessary.

4. Treated surfaces are easily distinguished from untreated surfaces because of the greenish-yellow color of the film in the presence of moisture and light. The fluorescent tint of the film disappears completely upon drying. The residue remaining on the surface of hardened concrete does not impair bonding or alter color.

FOR BEST PERFORMANCE

- Do not apply MasterKure ER 50 as a final finishing aid or work it into the surface of cast-in-place concrete or cementitious repair applications.
- MasterKure ER 50 evaporation reducer is not a curing agent. Concrete treated with this product must still be cured.
- Master Builders Solutions is not responsible for compatibility or results when MasterKure ER 50 evaporation reducer is used with other manufacturers' products.
- MasterKure ER 50 reduces evaporation only while concrete is plastic. It is not a substitute for early curing of hardened concrete, nor does it alter the effectiveness of membrane curing compounds.
- Protect MasterKure ER 50 from freezing. Extreme cold may cause segregation, from which the product cannot be reconstituted.
- Do not allow any spills or residue of MasterKure ER 50 concentrate to dry on the surface of hardened concrete. Wipe up immediately, then rinse the surface with water. If the concentrate residue dries on hardened concrete, a reddish-brown stain may appear.
- For a detailed technical discussion about the action of monomolecular films typified by MasterKure ER 50, refer to the Journal of the American Concrete Institute, Volume 62, pp. 977–985.
- MasterKure ER 50 product may be used in precast/prestressed concrete applications, such as drainage structures, double-tee beams, bridge girders and concrete piles, to prevent/minimize tearing and improve surface finish.
- For professional use only; not for sale to or use by the general public.
- Make certain the most current versions of product data sheet and SDS are being used; visit www.master-builders-solutions.com/en-us to verify the most current version.

- Proper application is the responsibility of the user. Field visits by Master Builders Solutions personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.com/en-us, e-mailing your request to mbsbscst@mbcc-group.com or calling 1 (800) 433-9517. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

LIMITED WARRANTY NOTICE

Master Builders Solutions Construction Systems US, LLC ("Master Builders") warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. MASTER BUILDERS MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of Master Builders. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. MASTER BUILDERS WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

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MasterFormat: 03 15 00

NO. 325

MAY 2014
(Supersedes October 2008)

DECK-O-FOAM®

Expansion Joint Filler

DESCRIPTION

DECK-O-FOAM expansion joint filler is a flexible, lightweight, non-staining, polyethylene, closed-cell expansion joint filler. It is a chemical-resistant, ultraviolet stable, non-absorbent, low density, cost-effective, compressible foam that offers an extended service life in both interior and exterior applications.

DECK-O-FOAM is supplied with a convenient, pre-scored removable strip to provide a uniform sealing reservoir in the joint. It also serves as a sealant bond-breaker and provides a cost-effective alternative as an expansion joint in all concrete paving projects. It is compatible with all currently available cold-applied sealants.

USES

DECK-O-FOAM is ideal for use as an expansion, contraction, and/or isolation joint in swimming pool decks, curb and gutter work, floor slabs, pavement patch repair, sidewalks, driveways, plazas, parking decks, highways, and airport runways.

FEATURES/BENEFITS

- Pre-scored strip is easily removed.
- Economical alternative to expansion joints.
- Controls amount of sealant needed and acts as a bond breaker.
- Eliminates costly sawing and routing.
- Flexible, lightweight, and can be formed around curved objects.
- Easy to install.
- Can be used in interior or exterior applications.

PACKAGING	(Standard Size Rolls)
1/4" x 3" x 100' 6.4 mm x 76.2 mm x 30.5 m	20 rolls/bale
1/4" x 4" x 100' 6.4 mm x 101.6 mm x 30.5 m	15 rolls/bale
1/4" x 6" x 100' 6.4 mm x 152.4 mm x 30.5 m	10 rolls/bale
1/4" x 8" x 100' 6.4 mm x 203.2 mm x 30.5 m	7 rolls/bale
1/4" x 48" x 100' 6.4 mm x 1.22 m x 30.5 m	1 roll/bale
1/2" x 3" x 50' 12.7 mm x 76.2 mm x 15.2 m	20 rolls/bale
1/2" x 3 1/2" x 50' 12.7 mm x 88.9 mm x 15.2m	17 rolls/bale
1/2" x 4" x 50' 12.7 mm x 101.6 mm x 15.2 m	15 rolls/bale
1/2" x 5" x 50' 12.7 mm x 127 mm x 15.2 m	12 rolls/bale
1/2" x 6" x 50' 12.7 mm x 152.4 mm x 15.2 m	10 rolls/bale
1/2" x 8" x 50' 12.7 mm x 203.2 mm x 15.2 m	7 rolls/bale
1/2" x 48" x 50' 12.7 mm x 1.22 m x 15.2 m	1 roll/bale

*Special sizes available upon request.

SPECIFICATIONS

- ASTM D 4819, Type II

CONTINUED ON REVERSE SIDE...

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TECHNICAL DATA

	TEST METHOD	TYPICAL VALUE
Density	ASTM D 1622	2.0 lb./ft. ³ (32.04 kg/m ³)
Compression		
10% Deflection	ASTM D 3575	10 psi (69 KPa) max.
80% Deflection	ASTM D 3575	125 psi (862.49 KPa) max.
Tensile Strength	ASTM D 3575	55 psi (379.50 KPa)
Water Absorption	ASTM D 3575	0.5% vol. max.
Temperature Stability	N/A	-40° F to 160° F (-40° C to 71° C)

These physical properties are typical, but should not be used in specifying material due to differences that could result from variations in testing methods.

APPLICATION

Attach DECK-O-FOAM securely to the existing concrete slab, coping, or form with tape or mechanical fasteners prior to pouring the next slab. Make sure that DECK-O-FOAM is level with the desired slab surfaces before finishing. If specifications require the use of a cold-applied sealant, remove the pre-scored strip and apply the sealant following the manufacturer's instructions.

LEED INFORMATION

May help contribute to LEED credits:

- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

For further LEED information and safety data sheet, visit
www.wrmeadows.com

**LIMITED WARRANTY**

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

PRODUCT DATA

NO. 723-A

MasterFormat: 07 26 16

W. R. MEADOWS.
SEAIGHT

AUGUST 2016
(Supersedes July 2014)

PERMINATOR® TAPE

Overlap Seam Tape

DESCRIPTION

PERMINATOR TAPE is a self-adhesive tape, used in conjunction with the application of PERMINATOR underslab vapor barrier.

USES

PERMINATOR TAPE is for use in sealing vapor barrier seams and attachment to footings, protrusions, etc.

FEATURES/BENEFITS

- Backing stabilized to resist the effects of UV exposure.
- Product is very conformable.
- Maintains a watertight seal in all weather conditions.

PACKAGING

PERMINATOR TAPE is offered in 4" (10 cm) widths and roll lengths of 180' (55 m), 12 rolls/carton.

COVERAGE

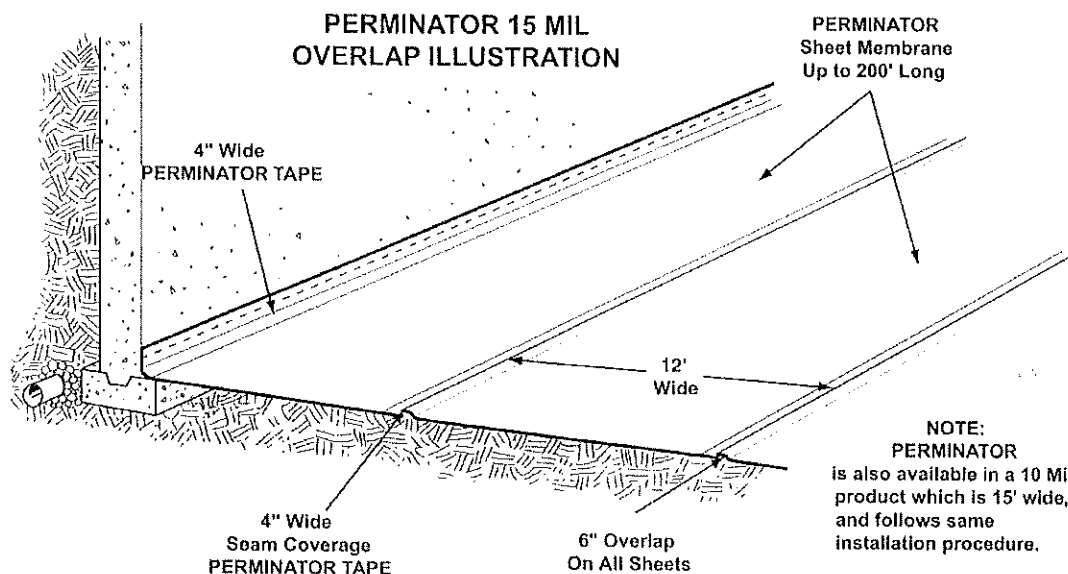
One box of tape will adhere approximately 10 rolls of PERMINATOR.

TECHINAL DATA

Thickness: 8 Mils (0.2 mm)

APPLICATION

Surface Preparation ... The PERMINATOR TAPE area of adhesion should be free from dust, dirt, and moisture, to allow maximum adhesion of the pressure-sensitive tape.



CONTINUED ON REVERSE SIDE...

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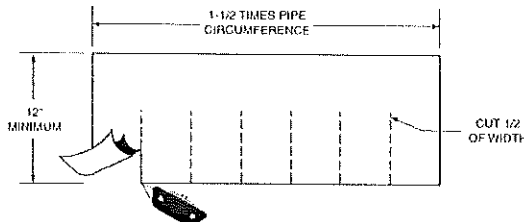
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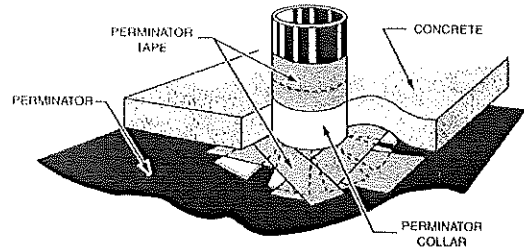
Sealing Seams/Attaching to Footing ... All joints/seams in the vapor barrier application, both lateral and butt, should be overlapped 6" (152.4 mm) and taped using PERMINATOR TAPE. The most efficient installation method includes placing PERMINATOR on top of the footing and against the vertical wall. This will sandwich PERMINATOR between the footing, vertical wall, and poured concrete floor (see illustration below). This will help protect the concrete slab from external moisture sources once the slab has been placed.

Sealing Protrusions ... Cut a slit around pipes, ductwork, rebar and wire penetrations to place the initial layer of the vapor barrier. To further protect the concrete slab from external moisture sources, use a piece of vapor barrier and place a collar around these as well.

1. Cut a piece of PERMINATOR a minimum of 12" (304.8 mm). The length should be 1 1/2 times the pipe circumference. With a roofer's knife or scissors, cut "fingers" half the width of the film. (See figure 1.)



2. Wrap around and tape the collar onto the pipe and completely tape fingers to the bottom layer of PERMINATOR, as shown in figure 2.



In the event that PERMINATOR is damaged during or after installation, repairs must be made. Cut a piece of the vapor barrier large enough to cover any damage by a minimum overlap of 6" (152.4 mm) in all directions. Clean all adhesion areas of dust, dirt and moisture. Tape down all edges using PERMINATOR TAPE.

LEED INFORMATION

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- IEQ Credit 3.1: Construction Indoor Air Quality Management Plan - During Construction
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials
- SS Credit 3: Brownfield Redevelopment

For most current data sheet, further LEED information, and SDS, visit www.wrmeadows.com.

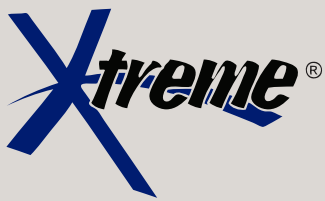


LIMITED WARRANTY

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

Disclaimer

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XTREME VAPOR BARRIER

UNDER CONCRETE SLAB VAPOR BARRIER

MASTER FORMAT #033000 - VAPOR BARRIER

XTREME VAPOR BARRIER 10 MIL, 15 MIL, 20 MIL

DESCRIPTION

Tex-Trude Xtreme Vapor Barrier/Retarder is a high performance film designed for use under concrete slabs to stop moisture migration and to control radon gas, methane, and other soil gases or contaminants. Xtreme Vapor Barriers/Retarders are extruded in a single sheet of material composed of the latest generation of virgin polyolefin resins. This high puncture resistant Vapor Barrier/Retarder, has superior performance to other materials in the industry and is available in 10 mil, 15 mil and 20 mil.



INSTALLATION

Under Concrete Slab: Install Xtreme Vapor Barrier/Retarder over tamped earth, sand or aggregate base. Follow ASTM 1643 guidelines. Unroll and completely cover the area to receive the building slab or other specified areas. The seams must overlap a minimum of six inches and be sealed with Xtreme Seam Tape, Xtreme Thin Tape, or Xtreme Grip Back Tape. All exposed penetrations also must be sealed. A physical inspection of the area should be performed prior to installation.

Note: Only use Xtreme Tapes, Xtreme Mastic, and Xtreme SLM to seal seams, edges, and penetrations.



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MADE IN THE U.S.A

TECHNICAL DATA

Technical Data Xtreme Vapor Barrier 10 mil, 15 mil, 20 mil		ASTM E 1745, Class A,B,C – standard specification for water vapor retarders used in contact with soil or granular fill under concrete slabs		
		Xtreme 10 mil	Xtreme 15 mil	Xtreme 20 mil
Water Vapor Permeance	ASTM F 1249 – Vapor Transmission Rate	0.018	0.0078	0.0055
Puncture Resistance	ASTM 1709 – Test method for impact resistance of plastic film by free-fallen dart method	3000	4000	5600
Tensile Strength	ASTM D 882 – Method for tensile properties of thin plastic sheeting	58	64	81
Methane Transmission Rate	ASTM 1434 – Standard test method for determining gas permeability	298.01	252.55	163.71
Life Expectancy	ASTM E 154 – Test methods for vapor retarders used in contact with earth under concrete slabs, on walls or as ground cover	Indefinite	Indefinite	Indefinite
Roll Dimensions		14 x 210 2940 ft ²	14 x 140 1960 ft ²	12 x 150 1800 ft ²
Roll Weight		142 lb	142 lb	173.2 lb
Note: Perm Unit = Grains/(ft ² • HR • in·HG) GTR = Gas Transmission Rate				
The information provided above was preformed and tested by an Independent Laboratory				

LIMITED WARRANTY

Tex-Trude warrants this product to meet the published specifications and to be free of defects in workmanship and materials at the time of shipment from our factory. If any Xtreme material proves to contain manufacture defects that substantially affect the performance, then Tex-Trude will at their option replace the material or refund the purchase price. This limited warranty is the only warranty offered by Tex-Trude, LP as it relates to Xtreme products. There are no other warranties, including the implied warranties of merchantability or fitness for a particular purpose. Tex-Trude specifically disclaims liability for any incidental, consequential, or other damages.



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