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MEL-DEK Deck Waterproofing System



MEL-DEK is a roll-type waterproofing membrane composed of a nominally 53 mil thick layer of polymeric waterproofing membrane on a shrink-resistant, heavy-duty, 12 mil thick polypropylene woven carrier fabric. The two components are laminated together under strictly controlled production procedures.

USES

MEL-DEK Waterproofing System provides an excellent waterproofing membrane for bridges, parking decks or other vehicular traffic structures to be overlaid with an asphalt concrete wearing course. MEL-DEK is ideal for repair, maintenance or new construction applications.

PROPERTIES:

Thickness	65 mils
Tensile Strength, ASTM D 882	
Warp	90 lbs./in.
Fill	90 lbs./in.
Elongation, ASTM D 882	
Polymeric Membrane	410%
Fabric, Warp	35%
Fabric, Fill	45%
Puncture, ASTM E 154	275 lbs.
Flexibility, ASTM D 146	PASS
180° Bend, ¼" mandrel @ -26°F	
Water Vapor Permeance, ASTM E-96, Water Method	0.03 Perms
Water Absorption, ASTM D 1970	0.06%
ASTM D 1228	0.06%

COVERAGE

180 sq. ft. net (16.72 sq. m) of effective waterproofing coverage. (192.5 gross coverage.)

FEATURES AND BENEFITS

- Requires no protection ... can withstand the dynamic placement of hot asphalt overlays.
- Provides 3/4" membrane-to-membrane weld at seams for positive, monolithic protection.
- Flexible, dependable, cost-effective and easy to install.
- Meets a wide range of maintenance and new construction application needs.

SPECIFICATIONS

ASTM D 6153, Type III

Priming :

Prime all surfaces to be covered with MEL-PRIME or MEL-PRIME W/B primer from W. R. MEADOWS. Primer may be spray-applied or applied with a lamb's wool roller. Allow primer to dry until tack-free. Primed areas not covered in 24 hours must be re-primed.

Coverage:

250 to 300 sq. ft./gal.



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MEL-ROL Rolled, Self-Adhering Waterproofing Membrane



MEL-ROL waterproofing system is a flexible, versatile, dependable, roll-type waterproofing membrane. It is composed of a nominally 56 mil thick layer of polymeric waterproofing membrane on a heavy duty, four-mil thick, cross-laminated polyethylene carrier film. The two components are laminated together under strict qualitycontrolled production procedures.

A handy overlap guideline is printed 2 ½” in from the material edge on each side to assure proper overlap coverage and to assist in maintaining a straight application. Special exposed polymeric membrane strips are provided on both sides for positive membrane-to-membrane adhesion in the overlap area. The membrane strips are protected by a pull-off release strip. All components of the MEL-ROL waterproofing system work together to provide a cost-effective, positive waterproofing system that is quick and easy to apply.

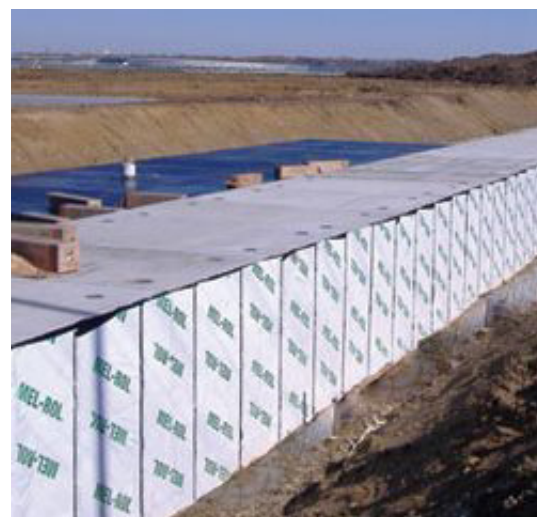
FEATURES / BENEFITS:

- Provides cost-effective, flexible, versatile, dependable, positive waterproofing protection against damaging moisture migration and the infiltration of free water.
- Offers a quick and easy-to-apply system for maximum productivity.
- Special membrane-to-membrane adhesion provides additional overlap security.
- Meets or exceeds the test requirements of all currently applicable specifications.
- Components work together for positive waterproofing protection.
- Handles with ease on the jobsite.
- Available in a low temperature version for use when air and surface temperatures are between 20° F and 60° F. An extra-low temp version is also available, ideal for application in extra-low temperatures down to 0° F.

PACKAGING:

38.5” wide x 62.5’ long, one roll per carton.
ALSO AVAILABLE IN 24” X 62.5’

MEL-ROL waterproofing system provides a cost-effective answer to properly waterproof foundations, vertical walls, and below-grade floors in residential and commercial construction. It is equally effective for use as between-the-slab waterproofing on plaza decks, parking decks, and structural slabs. Use it as a waterproofing membrane to isolate mechanical and electronic rooms, laboratories, kitchens, and bathrooms. MEL-ROL offers positive protection when “wrapped around” major rapid transit, vehicular, utility, and pedestrian tunnel projects. MELROL can also be used on insulated concrete forms (ICF).





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PREMOULDED MEMBRANE® VAPOR SEAL WITH PLASMATIC® CORE



Vaporproofing/Waterproofing Membrane

PMPC provides a positive, easy-to-install, economical, true vaporproofing and waterproofing system for horizontal applications. Properly applied, it stops moisture migration in footings, concrete floors, and structural slabs. PREMOULDED MEMBRANE VAPOR SEAL WITH PLASMATIC CORE is both waterproof and vaporproof.

It offers a perm rating of less than 0.002 perms, the lowest in the industry. The product is the ultimate when a true vapor seal is required. Among its unique features

is the built-in protection course, which resists jobsite puncturing and the abrasive action of concrete placement. PMPC conforms to ASTM E 1993-98.

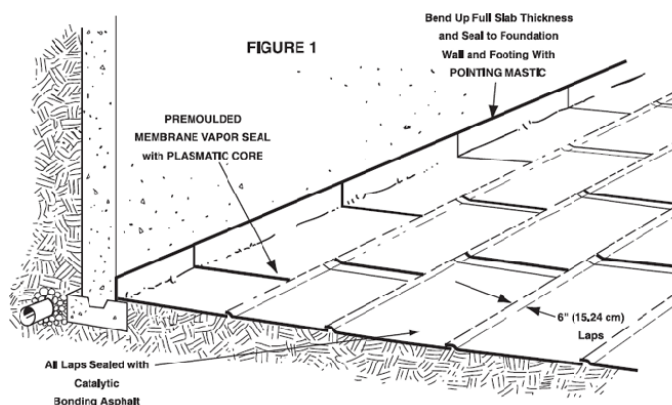
The exclusive PLASMATIC CORE adds flexibility, greater tensile strength and excellent handling characteristics, in addition to providing unequalled vapor barrier properties. PMPC helps meet and maintain the maximum slab moisture transfer rate of 3 lb./1000 sq. ft./24 hours, as allowed by the flooring industry's specifications.

FEATURES / BENEFITS:

- Offers a virtually impermeable vaporproofing system with a perm rating of less than 0.002 perms, the lowest in the industry.
- As the only true vapor barrier for horizontal applications, it is both waterproof and vaporproof.
- Provides excellent tensile strength and puncture resistance.
- Helps prevent warping, buckling, or delamination of subsequent flooring systems.
- Conforms to ASTM E 1993-98 specification.
- Greatly reduces fungus, mildew, and mold.
- Greatly reduces radon gas from entering the structure.
- Helps meet and maintain the maximum slab moisture transfer rate of 3 lb./1000 sq. ft./24 hours, as allowed by the flooring industry's specifications

PACKAGING:

	Width	Length	Weight
Sheets	48"	8'	60 lb. / 100 sq. ft.





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PROTECTION COURSE

Waterproofing Protection



PROTECTION COURSE is a multi-ply, semi-rigid core composed of a mineral-fortified asphalt core formed between two outside layers of asphalt impregnated reinforced mats, manufactured in accordance with ASTM D 6506. When properly applied by personnel trained in good waterproofing techniques, PROTECTION COURSE will absorb the impact of aggregate shock and normal jobsite foot traffic. It also protects the membrane waterproofing from penetration by sharp aggregate during backfilling and later settlement. PROTECTION COURSE is available in two types: PC-2, Standard Duty and PC-3, Heavy Duty. Both types are economical and convenient to use.

USE

PROTECTION COURSE is used in between slab construction, such as plaza decks, roof terraces, promenade decks, pedestrian concourses, tunnels, bathroom floors, showers, kitchens, mechanical rooms, parking garage decks, planter boxes, reflective pools, and foundation walls. PROTECTION COURSE is compatible with most currently popular dampproofing and waterproofing

FEATURES/BENEFITS

- Tough, durable and lightweight ... panels are easily handled, quickly installed.
- Full width fiberglass matting improves flexural strength.
- Highly resistant to chemical action.
- Performance is equally effective in above- or below-grade installations.
- Unique dual facing offers compatibility with most currently popular waterproofing materials.
- Economical and convenient to use.

PACKAGING

4' x 8' Panels

TECHNICAL DATA

ASTM D 6506, Class B

PROTECTION BOARD REQUIREMENTS

	PC-2
Puncture Strength	312 N (70 lbf) minimum
Thickness	2.4 - 3.9 mm (0.095" - 0.155")
Water Absorption	10.0% maximum
Asphalt, % by weight	40% minimum
Resistance to Decay (Classes A & B)	Meets puncture requirements after completion of test





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TREMproof® 250GC



Single Component, Rapid Curing, Fluid-Applied Elastomeric
Waterproofing Membrane

TREMproof® 250GC is a rapid-curing, high solids, VOC compliant modified polyurethane waterproofing membrane. It can be applied to damp and Green concrete. TREMproof 250GC is a one-part moisture curing elastomer available in three viscosities: Self-Leveling, Roller and Trowel (trowel intended for detailing work).

BASIC USES:

TREMproof 250GC is designed for use on backfilled walls, split slab applications, planters and submerged conditions.

FEATURES AND BENEFITS:

TREMproof 250GC can be applied in as little as 24 hours following the removal of concrete forms to keep construction moving. It can also be applied to damp concrete, reducing the delays associated with rain or other sources of water. The unique ability to catalyze TREMproof 250GC with water when desired will speed cure times, especially cold temperatures and low relative humidity, to further compress the construction schedule. TREMproof 250GC can be applied at a rate of up to 120 mils in a single lift to speed application without sacrificing performance. It can also be applied in multiple lifts to achieve a 215 mil high-build system when maximum protection is required.

PACKAGING:

5 gal. pails, 36 pails/pallet
55 gal. drums, 4 drums/pallet

COVERAGE RATES:

Wet Mil Thickness	Square Ft / Gal	Sq. M/Litre
215	7.5	.19
120	13	.32
90	18	.44
60	25	.66





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MASTERSEAL HLM 5000

Liquid, cold-applied elastomeric waterproofing membrane system



Formerly SONOSHIELD HLM 5000

A one-component, moisture-curing, bitumen-modified polyurethane elastomeric waterproofing membrane for exterior below-grade or between-slab applications.

PRODUCT HIGHLIGHTS:

- Available in standard and high-build systems
- Waterproofing membrane to prevent water penetration
- Elastomeric accommodates expansion and contraction
- Wide service-temperature range, making
- MasterSeal HLM 5000 suitable for all climates
- Chemical resistance to bacterial attack, select acids, alkalis and salts
- Seamless cold-applied membrane eliminates lapping, seaming and precutting
- Does not require hot-melt equipment

APPLICATIONS:

- Concrete
- Plywood (exterior)
- Exterior below grade (on masonry, concrete, and incidental metal)
- Above grade (between two-course concrete and, within cavity walls)
- Parking garages and concrete tanks
- Plaza decks and malls
- Walls and culverts
- Sea walls, dams and reservoirs
- Below-grade slabs
- Fountains and pools
- Balconies and planters



YIELD:

25–30 ft²/gal at 55–65 wet mils

25–30 ft²/gal at 45–55 dry mils





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The Chemical Company

MASTERSEAL® 615

Waterborne emulsified-asphalt dampproofing compounds

Formerly HYDROCIDE 700B

MasterSeal 615 are cold-applied water-based emulsified-asphalt dampproofing and vapor-retarding coatings for use on “green” or slightly damp surfaces.

MasterSeal 615 is reinforced with short fibers for application by brush or spray.

PRODUCT HIGHLIGHTS:

- Suitable for “green” or slightly damp surfaces, speeding up dampproofing of new foundation walls
- Non-flammable to minimize fire hazard during application
- User-friendly water clean-up formula; reduces clean-up time
- Flexible
- Wide service temperature range of -40 to 150° F making MasterSeal 610, 614, and 615 suitable for most Climates

APPLICATIONS:

- Exterior surfaces (below grade)
- Foundations
- Faces of cavity walls
-
- Concrete
- CMU
- Exterior-grade gypsum board
- Bonding polystyrene insulation to many substrates

PACKAGING:

53 gallon drums,
5 gallon cans

YIELD:

Varies





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STEGO® WRAP VAPOR BARRIER

ASTM E 1745 Class
A-B-C Compliant



STEGO® WRAP VAPOR BARRIER is made with our proven trade secret blend of prime virgin resins and additives. Stego Wrap Vapor Barrier is an ASTM E 1745 Class A Vapor Barrier (Below 0.01 perms). We focus on producing a product that will maintain its extremely low permeance for the life of a building. The protection of Stego Wrap Vapor Barrier provides the flexibility to change flooring types and overall building use without worrying about below-slab moisture vapor.

SUPERIOR DEFENSE Against Floor Failures:

Infiltration of moisture through concrete slabs is a major building defect liability. Stego Wrap Vapor Barrier has an extremely low permeance preventing water vapor, soil gases (i.e. Radon), alkaline salts and soil sulfates from compromising the integrity of the building envelope and leading to serious problems with the concrete slab, floor coverings and indoor air quality. Stego Wrap Vapor Barrier is the best protection against these costly failures.

MOLD PREVENTION:

Mold needs three things to survive: moisture, sustained temperature (between 50° and 122° F), and a food source (dust, drywall, etc.). In any given building environment, contractors can only control one of these variables: moisture. Mold spores are present in 100% of building interiors. If moisture is allowed into your building environment, mold can and will grow. Toxic molds like Stachybotrys can be fatal for nearly 5% of people (Institute of Medicine 1993), and cause a variety of serious health problems in others. Several recent well-publicized cases involving toxic mold have resulted in multimillion-dollar insurance settlements. Many of the nation's leading Insurance companies have severely limited or removed coverage for mold claims fearing that these claims will bankrupt their companies. Now more than ever, it is critically important that extra attention be paid to preventing the intrusion of moisture vapor from your below-slab environment. Stego Wrap Vapor Barrier offers the level of protection that many architects are now seeking and is considered to be inexpensive insurance against these costly failures.

LONGEVITY AND STRENGTH:

Stego Wrap Vapor Barrier is NOT made with recycled materials and will not degrade. Prime, virgin resins are the key. Molecules within Stego Wrap “interlock” to provide strength, durability and unprecedented resistance to moisture vapor and radon gas. Stego Wrap's puncture resistance is excellent. Stego Wrap will not tear, crack, flake, snag or puncture, even when 18,000 lb. laser-screed machines are driving directly across the barrier.

SIZE:

15 mil	14' x 140'
10 mil	210 x 140'

Waterproofing



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PB4 Waterproofing Protection Board

Protects the waterproofing membrane from damage when backfilling.

*Lightweight, easy-to-install fanfold.
Superior moisture resistance.*



Once you've applied the waterproofing membrane to exterior foundation walls, protect it from damage during backfilling with PB4 Waterproofing Protection Board. PB4 has tough plastic capsheets that resist puncturing, plus high compressive strength and impact resistance to withstand even the toughest load pressures. Because it is made of extruded polystyrene (XPS), PB4 has a dense, closed-cell construction that resists both moisture absorption and decomposition from long-term exposure to chemicals in the soil. Comes in lightweight, fanfolded bundles that are easy to transport and install.

TYPICAL PHYSICAL PROPERTIES

Property	Test method	PB4
Thermal Resistance , R-Value ¹ (° F-ft ² -h/Btu) ¹	ASTM C 518 (@ 75°F Mean Temperature)	1.0
Thermal Conductivity (Btu-in/hr-ft ² - ° F)	ASTM C 518 (@ 75°F Mean Temp., k)	0 .25
Water Vapor Permeance (perm)	ASTM E 96 Desicant Method	0 .6
Water Absorption (Max. % by Volume)	ASTM C 272	0.6
Compressive Strength (psi@ 10% Deflection)	ASTM D 1621	12
Fire Characteristics ² Flame Spread Smoke Developed	ASTM E 84/UL 723	Cl ass A 25 250
Max. Recommended Use Temp. (°F)		165
Weight (lbs./1,000 sq . ft.)		80

SIZE: 4' X 50'



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FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation



Energy-Saving¹, Moisture Resistant XPS Insulation

Owens Corning™ FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is a closed cell, moisture-resistant rigid foam board well suited to meet the needs for a wide variety of building applications.

FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is great for many residential and commercial construction applications such as wall furring, perimeter/ foundation, cavity wall, precast concrete, under slab, crawl spaces, sheathing and other applications.² FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is classified as a Type IV product when tested in accordance with ASTM C578 and provides a long-term thermal performance of R-5 per inch.

Like all FOAMULAR® XPS Insulation products, FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is made with Owens Corning's patented Hydrovac® process technology under strict quality control measures, which makes it highly resistant to moisture and permits the product to retain its high R-value year after year even after exposure to moisture and freeze/thaw cycling.

KEY FEATURES:

- Excellent long-term stable insulating performance at R-5 per inch ³
- Exceptional moisture resistance, long-term durability
- Limited lifetime warranty⁴— maintains 90% of R-value and covers all ASTM C578 properties
- The only XPS foam to have achieved GREENGUARD Gold Certification
- The only XPS foam with certified recycled content— certified by Scientific Certification Systems (SCS) to contain a minimum 20% recycled content
- Will not corrode, rot or support mold growth
- Zero ozone depletion potential with 70% less global warming potential than our previous formula
- Reusable
- Lightweight, durable rigid foam panels are easy to handle and install
- Easy to saw, cut or score
- Versatile applications: sheathing, foundation walls, masonry cavity walls¹
- Not for use in roofing. For roofing applications, use FOAMULAR® THERMAPINK® Extruded Polystyrene (XPS) Insulation.



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HYDRAULIC WATER-STOP CEMENT



QUIKRETE® Hydraulic Water-Stop Cement is a rapid setting, high strength repair material designed to plug leaks instantly in concrete and masonry.

PRODUCT USE:

QUIKRETE® Hydraulic Water-Stop Cement will block running water when application is made to masonry or concrete surfaces. This special formulation allows the product to obtain high strength and rapid setting while repelling water. QUIKRETE® Hydraulic Water-Stop Cement solves leakage problems wherever active water is present, in all masonry and concrete above and below grade. Use QUIKRETE® Hydraulic Water-Stop Cement for sealing around concrete pipes and for plugging leaks in:

- Foundation and retaining walls
- Chimneys
- Swimming pools, fountains and cisterns

YIELD:

Each 50 lb pail of QUIKRETE® Hydraulic Water-Stop cement will yield 0.42 cu ft.

Curing Time	Compressive Strength
2 hours	1000 psi (6.9 MPa)
24 hours	2500 psi (17.3 MPa)
7 days	4500 psi (31.1MPa)
28 days	5500 psi (38.0 MPa)
Final set time less than 5 minutes	

