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WATERBAN® 60 - P - SM - M

Cold applied bituminous water-based water proofing agent

Advantages:

- Asbestos free
- No VOCs
- Non-flammable
- Applicable to damp or “green” concrete
- Will not get brittle in cold weather or run in hot
- Bridges over minor defects
- Applicable over plastic insulation
- Cleans with soap and water
- Low odor after 24 hours

Coverage:

- Application varies based on grade of consistency (P, SM, M)

See Coverage section for full details

Packaging:

5 gal (18.9L) pail
55 gal (208.2L) drum

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Product Description

When it is desirable to keep water from moving through concrete and when the water in contact with the concrete is not under pressure, WATERBAN® 60 bituminous asphalts are the products most used to protect the concrete, metal, etc, from moisture penetration. The WATERBAN® 60 products reduce the transmission of water vapor through concrete but do not stop it entirely. It is frequently desirable not to totally halt the passage of water vapor. If liquid water has somehow found its way into the concrete, damp proofing materials can allow it to escape slowly as water vapor. Damp proofing concrete is relatively low in cost compared to waterproofing because of less total product cost, less surface preparation, and in most cases a lesser thickness of material used.

WATERBAN® 60 series asphalt emulsion damp proofing products are manufactured in 3 grades: non-fibrated, semi-fibrated, and heavily fibrated.

- WATERBAN® 60P is a non-fibrated asphalt emulsion for application by spray or by brush. It is asbestos free with a consistency of heavy paint.
- WATERBAN® 60SM is a semi-fibrated asphalt emulsion for application by spray or by brush. It is asbestos free (fibers other than asbestos) and is a semi-mastic paste consistency.
- WATERBAN® 60M is a heavy fibrated asphalt emulsion for application by plasterer's trowel. It is asbestos free (fibers other than asbestos) and a mastic consistency.

WATERBAN® 60 series asphalts are used as a protective coating against dampness on interior and exterior surfaces of concrete above and below surface grade. It performs as a vapor barrier when applied to vertical surfaces above grade. WATERBAN® 60 type asphalts are designed to speed up the damp proofing of new construction because they can be applied to a slightly "green" wall.

Installation

Before using this product, please refer to the Material Safety Data Sheet for additional information. Proper handling precautions MUST be followed. The conditions of use, handling, and application of this product and information (whether verbal or written), including any suggested formulations and recommendations, are beyond Lambert Corporation’s control. Therefore, it is imperative that testing be performed to determine satisfaction and suitability for intended use and health, safety, and environmental issues. The following information is meant as a guideline of best industry practices. While Lambert Corporation does suggest adherence to these guidelines, unforeseeable variables and/or developed successful installer practices may cause variation in methods and/or results.

Surface Preparation:

Surface must be free of scale, loose mortar, rust, oil, grease, and foreign matter. Application should be made at temperatures above 50°F (10°C) and rising. Before application, fill voids, cracks and holes in concrete with cement mortar - allow to dry.

Primer

Dry or porous masonry must be slightly dampened with water and primed with WATERBAN® 60P (cut 20% by volume with clean water) and allowed to dry prior to applying WATERBAN® 60SM or 60M. A primer is also needed when the masonry surface is rough, filled with small voids, pits, holes, etc. that would be difficult to fill with a heavier viscosity material. PRIMER IS NOT REQUIRED ON SMOOTH CONCRETE SUBSTRATES.

Equipment

WATERBAN® 60P: For application use roofers three-knot brush or spray. For

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spraying, use Graco 10:1 President Pump (or comparable) - spray unit for water based texture material.

WATERBAN® 60SM: For application use a wide soft bristled fiber brush, roofers' three-knot brush, or spray. For spraying, use Graco 10:1 President Pump (or comparable) - standard spray unit for water based texture material.

WATERBAN® 60M: Use a regular plasterer's trowel.

Application Methods -

Brush Application

Apply with even strokes, flowing the WATERBAN® 60 on the surface to obtain a smooth, uniform film at the specified coverage rate.

Spray Application

Apply to large areas with standard mastic-pump type equipment that is placed in material drum. WATERBAN® 60 should be applied in one heavy coat at specified rate with a 50% overlap of spray pattern in order to obtain a uniform and continuous film.

Trowel Application

Apply cold with a plasterer's trowel flowing WATERBAN® 60M (mastic consistency) on the surface to obtain a smooth, uniform film at the specified coverage rate.

Specific Application -

Exterior Surfaces & Cavity Walls - Above Grade

Apply two coats WATERBAN® 60P (allow first coat to dry or be tacky) or one coat of WATERBAN® 60SM or 60M. Coating must be continuous and free from breaks and pinholes. Spread the coating into and around all slots, joints, grooves.

Exterior Surfaces - Below Grade

Apply WATERBAN® 60P or 60SM in two coats, allowing first coat to dry, or, use one coat of WATERBAN® 60M. Coating must be continuous and free from breaks and pinholes. Spread over exposed top and outside edge of footings. Cover around all slots, joints, and grooves, and into all reveals, soffits, chases and corners. Spread coating to a finish grade. Do not place earth backfill for at least 48 hours after application or damage membrane during backfill operation.

Exterior Surfaces below Grade Parge Coat Method

Apply a parge coat of cement mortar to the surface, spreading the coating from the bottom of the footings to grade forming a cove at the junction of the wall and footing. Water cure only. After parge coat has cured, apply two coats of WATERBAN® 60P or 60SM or one coat of WATERBAN® 60M. Do not damage membrane during backfill operation.

Interior Surfaces above Grade (Vapor Barrier)

Apply WATERBAN® 60P or 60SM in one coat spreading the coating into and around all slots, joints, grooves and at least 12-inch (30.5 cm) out on all adjoining partitions.

Metal - Rust and Corrosion Protection

Strip surface of rust, dirt, oil, grease, and foreign matter. Apply 2 coats of WATERBAN® 60P or 60SM allowing first coat to dry before second application. If WATERBAN® 60M is used only one coat is necessary. The function of the WATERBAN¨ is to protect the metal from being attacked, corroded, etched or discolored by alkalis or moisture from brickwork or concrete.

Roofing

WATERBAN® 60 can be used with felt for built-up type roofing. WATERBAN® 60 has very good rust inhibiting and weathering qualities and can be applied as a coating over metal roofs. WATERBAN® 60SM can be used as the final coating on most cold process roofs, especially on low slope roofs. It is particularly effective in unusually severe moisture conditions, such as valleys and low spots.

Special Applications Membrane Method

Apply first coat of WATERBAN® 60SM by appropriate application method. Place specified membrane material vertically over surfaces of WATERBAN® 60 making sure all edges are overlapped at least 3-inch (7.6cm). Smooth membrane firmly into place and eliminate all wrinkles. Allow first coat to dry. Apply second coat and allow setting. Do not place backfill for at least 48 hours (7 days if possible) after application. Do not damage membrane during backfill operation.

Limitations

Temperature of substrate should be 50°F (10°C) and rising. Exposed surfaces must be protected from extreme heat and direct sunlight until the WATERBAN® 60 has set to prevent blistering. Surfaces freshly coated should be protected from heavy rains until the film has set.

Damp proofing asphalts should not be confused with waterproofing asphalts. WATERBAN® 60 type asphalts should not be used in areas where hydrostatic pressure is known to occur. If there is any likelihood that cracks may develop in the concrete later or the concrete may become subjected to a head of water, damp proofing should not be done and the concrete waterproofed instead.

To prevent blistering after application, coated surfaces should be protected from heavy rain until the film has set, and protected from heat and sunlight until the film has dried. Best results are obtained when application is made at temperatures of 50°F (10°C) or above. Keep from freezing in original containers.

Substrate surface must be at least 30 days old to allow for proper hydration and release of mineral salts. Never apply WATERBAN® 60 where mineral salts (efflorescence) are present. The salts are not considered a sound bondable surface for WATERBAN® 60. These salt areas need to be sandblasted or acid etched to produce an acceptable sound and open substrate for bonding.

WATERBAN® 60 is a breathable type coating and does not totally halt the passage of water vapor from within the concrete to the surface. Because of this migration, water vapor carrying salts will in some cases migrate through the WATERBAN® 60 coating and leave a white crystalline deposit on the surface. This deposit is not detrimental to the product performance.

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Technical Data

Applicable Standards

WATERBAN® 60P

- ASTM D 1227, Type III, Class 1
- ASTM D 1187, Type I
- SS-R-1781
- MIL-R-3472A

WATERBAN® 60SM

- ASTM D 1227, Type II, Class 1
- ASTM D 1187, Type I
- MIL R-3472, Type I (except Non-Asbestos)

WATERBAN® 60M

- ASTM D 1227, Type II, Class 1
- MIL R-3472, Type I (except Non-Asbestos)

PROPERTIES

• Percent Solids by Volume	54-59%
• Minimum Cure Time	7 days
• Percent Non-volatile	50-52%
• Flash Point	450°F (232.2°C)
• Weight per Gallon	8.6 lbs (1.0kg/L)
• Resistance to Solvents	Poor
• Resistance to Sunlight	Good
• Resistance to Mild Chemicals	Good

Viscosity @ 75°F (23.9°C)

• WATERBAN® 60 P	50-60 KU
• WATERBAN® 60 SM	90-120 KU
• WATERBAN® 60 M	110-130 KU

Coverage

WATERBAN® 60P

Apply each coat of liquid asphalt emulsion damp-proofing material by brushing or spraying at rate of 2.5 m^2/L (100 ft^2/gal.) to produce uniform dry-film thickness of not less than 0.2 mm (8 mils). Apply 2 coats of equal thickness, allowing time for complete drying between coats to achieve a dry-film thickness of not less than 0.4 mm (15 mils).

WATERBAN® 60SM

Apply each coat of semi-fibrated, semi-mastic asphalt emulsion damp proofing material by brushing at rate of 0.75 m^2/L (33 ft^2/gal.) for each coat to produce uniform dry-film thickness of not less than 0.65 mm (25 mils). A 1/8-inch wet-film thickness is achievable in two coat applications that will produce a 1/16-inch dry-film thickness. If this is desired, change the application rate above to read as follows - "apply two coats at a rate of 0.6 m^2/L (25 ft^2/gal.) for each coat to produce a total uniform dry-film thickness of not less than 0.8 mm (30 mils)."

WATERBAN® 60M

Apply fibrated, mastic, emulsion damp-proofing material by troweling onto substrate at a minimum rate of 0.4 to 0.6 m^2/L (16 to 25 ft^2/gal.) to produce a dry-film thickness of 0.8 to 1.2mm (30 to 50 mils) but not less than 0.65 mm (25 mils) at any point. A 1/8-inch (3.2mm) wet-film thickness is easily achievable in two coats to produce a total 1/16-inch or 1.6mm (dry-film thickness even at thinnest specified spread rate indicated for trowel grade material).

Clean-Up & First Aid

Clean-Up

Notify safety personnel of large spills or leaks. Clean-up personnel need protection against liquid contact and vapor inhalation. Absorb small spills and collect liquid, if feasible, or absorb with vermiculite or sand. Do not flush to sewer or stream.

First Aid

WATERBAN® 60 contains asphalt, which may be harmful if swallowed. Skin contact - Wash thoroughly with soap and water. Eye contact - Flush thoroughly with clean water for 15 minutes.

If swallowed do not induce vomiting. Call a physician immediately.

KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

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