PLAINTIFF'S EXHIBIT
MHD-195

PERMISEAL

FIRE-SAFE ASPHALT COATING



Permiseal is virtually an all-purpose weather proofing and corrosion resistant sealer and protective coating. Permiseal is a refined petroleum asphalt suspended to form a non-breaking chemical dispersion. It contains rust-inhibiting agents and other ingredients to promote flexibility, oxidation resistance and resistance to slip or sag. Permiseal is always ready for use. Will not separate in storage and is not damaged by freezing. Application is simple with either brush, trowel, or conventional spray equipment. It is not sticky or gummy during application.

SAFE NON-FLAMMABLE SEALER

Permiseal contains no flammable solvents. A blow torch applied directly to wet Permiseal in the drum will not cause the material to ignite. Does not, in itself, support combustion even when dry.

RESISTS RUST AND CORROSION

The anodizing and rust inhibiting agent deposits an inert, highly adherent film on metal surfaces. This acts as a positive physical barrier against electro-chemical corrosion of aluminum or common rusting of iron or steel. Insulation fasteners and jackets last longer.

ACID AND ALKALI RESISTANT

Permiseal effectively resists salt spray, most acids such as picric, sulfuric or hydrochloric; also sodium hydroxide, potassium hydroxide, sodium chloride or calcium chloride solutions. Permiseal affords protection against occasional splashing or spillage of the chemicals indicated, but is not recommended for constant contact with chemicals, such as lining of chemical vats.

VAPOR PERMEABILITY

Permiseal releases trapped moisture during curing, after which it becomes an excellent vapor seal. This unique curing action helps prevent the blistering common in cut-back type mastics applied over moist surfaces.

STAYS FLEXIBLE

Permiseal does not harden, crack or alligator, because its fast controlled curing process prevents shrinkage of the surface film. This is particularly true under exposure to low temperatures. This desirable flexibility in no way effects Permiseal's exceptional toughness and resistance to abrasion.

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APPLICATION

All surfaces to be coated must be clean and free from rust, dirt, grease, and other foreign matter. A relative humidity above 80%, or a temperature below 40 F, will retard the curing action, hence such application conditions should be avoided. Protect from rain at least eight hours. A surface with a temperature as high as 200 F may be coated satisfactorily. Materials such as insulating cements should be completely dry before Permiseal is applied to prevent leaching of solubles into the coating.

Permiseal applied with brush or trowel requires a minimum 1/4" thick wet coat, resulting in a dried coating 1/8" thick. Before brushing, Permiseal should be stirred to increase its fluidity, then applied with long strokes of a wide soft bristle brush. When not in use, the brush is kept immersed in water. Squeeze all excess water from brush before re-use.

Spray applications using conventional spray equipment and methods, usually require two 1/8" thick wet coats, resulting in a 1/8" thick dried coating. Permiseal applied over porous surfaces requires a suitable fabric reinforcing between each coat. Non-porous surfaces require reinforcement only at 90° bends, or for 6" around bends, joints, or openings, and at points of impact. On large surfaces, the reinforcing membrane must be lapped over itself at least 3" at all joints.

TECHNICAL DATA

PHYSICAL STATE - A light mastic suitable for brush, trowel or spray applications from 40 F to 200 F. Brown color cures to rich black. Is not affected by freezing. Weight is 8.6 lbs. per gallon.

FIRE HAZARD - Non flammable under ICC Regulations. Will not ignite in container when subjected to open flame, welding torches, etc.

ACID RESISTANT - After curing, is permanently resistant to most alkalis and acids, salt water, etc.

ODOR-FREE - Has mild pleasant odor when wet, odorless when cured.

COVERAGE - One gallon covers 10 sq. ft. 1/8" thick dry, or 20 sq. ft. 1/16" dry.

PACKAGES - 5 gal. pails or 54 gal. plastic-lined steel drums.

MAY BE PAINTED - Varnish-base aluminum paints and many types of outside paint may be used. A patch test is recommended to determine compatibility.

TEMPERATURE LIMIT - 400 F maximum after curing.

VAPOR PERMEABILITY - Permeability of a freshly dried 1/8" thick film is 1.04 grains per square foot per hour, per inch mercury pressure differential. After aging 2 months, permeability is 0.22 grains.

DRYING TIME - Dries to touch in four hours under normal conditions.

ADHESIVE STRENGTH - Adhesion after air curing is over 150 lbs. per sq. ft.

CORROSION RESISTANT - Inhibited against rust and corrosion.