



BRUSH GRADE

METAL COAT

Metal Coat® is a modified elastomeric asphalt emulsion specifically formulated for application on metal by brush, squeegee or roller. **Metal Coat®** is a cold applied, single component product that yields a membrane with excellent strength, elasticity and adhesion. **Metal Coat®** is an environmentally friendly waterproofing product that can be applied indoors and outdoors with conventional protective equipment. *See below

FREE OF FLAMMABLE SOLVENTS · NON-TOXIC, ODORLESS, WATER BASED EXCELLENT STRENGTH, ELASTICITY & ADHESION

| PROPERTY | TYPICAL RESULTS |
|---|----------------------|
| Specific gravity (liquid) g/cm ³ | Approx. 1.0 |
| Odor | None |
| VOC | Contains no solvents |
| Color | Brown to black |
| % solids (wt) | 53-58 |
| Viscosity, Brookfield, sp. #5, 20 rpm | 8000-9000 |
| pH | 10-12 |

Performance (Cured Membrane)

| PROPERTY | TYPICAL RESULTS |
|---|---|
| Color | Black |
| Specific gravity, g/cm ³ | Approximately 1.0 |
| Chemical resistance | Resistant to most inorganic solutions. Not recommended for gasoline or other petroleum products. Consult Chemical Resistance chart for further information. |
| Biological resistance ASTM E 154, ASTM 0412 | Passed (> 90% original value) |
| Impact resistance CSB37-GP-500 23°C, in-lbs | Passed (168) |
| Water tightness after impact | Passed (no leakage) |
| Water tightness CGSB 37-GP-56 | Zero Leakage |
| Tensile strength ASTM 0412, psi | 90 |
| Elongation, % | 850 |
| Accelerated weathering, ASTM G 155, 0 412 | Passed (No deterioration of film) |
| Tensile strength | Passed (> 90% original value) |
| Hardness, Oourometer Type 00 | 85-87 |
| Salt Fog Corrosion, Steel ASTM D412 | 1000 hours passing |
| Surface Corrosion ASTM D610 | No Corrosion after 500 hours, 0.03% after 1000 hours |
| Adhesion to concrete ASTM C907 | 111 PSI |
| Hardness ASTM D2246 | 50 Type A |
| Puncture resistance CGSB 37-GP-56 | No perforations |
| Water Vapor Transmissions ASTM E96 | 0.04 |

APPLICATION

Metal Coat® is a water-based, environmentally safe alternative to conventional hot-applied, solvent based and sheet membrane waterproofing systems. Since Metal Coat® cures by evaporation, a minimum application temperature of min. 40°F (4.5°C) is required. Apply in thin coats. The product cures within 24-48 hours at 70°F (21°C) and 50% relative humidity, at a thickness of 40 mils (1mm).

For best results, surfaces must be dry and free of dirt, debris, oil or grease. Application is not recommended if rain is imminent, or in high humidity environments.

Metal Coat® is applied between 20-30 ft²/gal (0.3-0.7 m²/litre) to produce a 40-60 mil (1-3 mm) protective membrane. Metal Coat® dries to the touch within minutes at 70°F (21°C). Curing time will vary depending on temperature and relative humidity.

LIMITATIONS

*Metal Coat® is mildly alkaline. When applying this product observe appropriate safety precautions, wear gloves, eye protection and other suitable protective equipment. For further information please consult the product MSDS.

Metal Coat® should not be applied when the ambient temperature is below 40°F (4.5°C). The uncured membrane may be damaged if frozen. Please contact PermaDri for advice if there are questions or concerns about adhesion to surfaces other than metal.

CAUTION

For industrial use only. Keep out of reach of children. Avoid storage below 40°F (4.5°C). Please consult the MSDS before using Metal Coat.®

TECHNICAL SERVICE:
559-275-9620 | 800-279-5604



Supplier: PermaDri, Incorporated 4595 West Jacquelyn Ave., Fresno, CA 93722 • **Phone:** 559-275-9620 • 800-279-5604 • **Fax:** 559-275-9629
THIS PRODUCT IS NOT SUBJECT TO THE CONTROLLED PRODUCTS OR THE TRANSPORTATION DANGEROUS GOODS REGULATIONS

SECTION I MATERIAL IDENTIFICATION

TRADE NAME: Metal Coat® • **EMERGENCY TELEPHONE #:** 559-275-9629

CHEMICAL FAMILY: Water suspension of petroleum derived hydrocarbons (polymer modified emulsified asphalt) and inert fillers.

MATERIAL USE: Protective Coating • **T.D.G. CLASSIFICATION:** NON REGULATED • **WHIMIS CLASSIFICATION:** NON REGULATED

SECTION II HAZARDOUS INGREDIENTS

| COMPONENT | CAS# | %(BYMASS) | LC50 (ppm) (rat inhal) | LD50 (mg/kg) (rat oral) |
|-----------------------------|-----------|-----------|---------------------------|----------------------------|
| Complex mixture of bitumens | n/a | 40-70 | n/a | n/a |
| Anionic surfactants | n/a | 0.5-2.0 | n/a | n/a |
| Water | 7732-18-5 | 30-60 | n/a | n/a |
| Polymer | | 5-25 | n/a | n/a |

SECTION III PHYSICAL PROPERTIES

Odor and appearance: Viscous brown liquid, slight resinous petroleum odor. • **Odor threshold:** n/a • **Specific gravity:** 1.00 (approx.).

Coefficient of water/oil distribution: n/a • **Vapor pressure (mm Hg):** 17 @20°C (water) • **Boiling point:** 100°C (water) • **Freezing point:** 0°C

pH: 7-13 • **Vapor density (air = 1):** > 1 • **Evaporation rate (nBuAcetate = 1):** <1 • **Volatiles %:** 30-60 (water) • **Solubility in water:** partially soluble

SECTION IV FIRE & EXPLOSION DATA

Means of extinction: n/a • **Sensitivity to mechanical impact/static discharge:** n/a • **Flash point (method):** n/a (non-combustible)

Upper flammable limits %: n/a • **Lower flammable limits %:** n/a • **Autoignition temperature:** n/a • **Special fire fighting instructions:** n/a

Unusual fire and explosion hazards: Product will not burn but may splatter if temperature exceeds the boiling point.

SECTION V REACTIVITY DATA

Chemical stability: Stable • **Incompatible materials:** Will react with alkaline sensitive materials such as acids and certain metals. Contact with reactive metals such as aluminum or magnesium will result in the formation of explosive hydrogen gas.

Hazardous decomposition products: Avoid heating about 200°C. At elevated temperatures hazardous vapors can be released, including carbon monoxide, hydrogen chloride, organic acids and aldehydes. • **Hazardous polymerization:** Will not occur.

SECTION VI HEALTH INFORMATION

Exposure limit: n/a • **Inhalation:** n/a • **Skin:** adhesion • **Eyes:** adhesion, irritation. • **Ingestion:** Blockage of digestive and/or respiratory tract.

Chronic effects: n/a

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: n/a

Skin: This is an alkaline product. If splashed on the skin immediately wash thoroughly with fresh water. If the product has dried on the skin massage the area with medical grade mineral oil, baby oil or edible oil, then wash with soap and water. If irritation persists seek medical attention.

Eyes: Flush thoroughly with fresh water for at least ten minutes. Seek medical attention.

Ingestion: DO NOT INDUCE VOMITING. Seek medical attention.

SECTION VII SPILL PROCEDURES

In the event of a spill: Dike and contain, transfer to containers for recovery or disposal. Keep out of sewers.

Waste disposal method: Follow federal, provincial and local regulations regarding disposal.

SECTION VIII SPECIAL PROTECTION

Respiratory protection: n/a • **Ventilation:** n/a • **Protective gloves:** Recommended • **Eye protection:** safety glasses/splash goggles recommended

Other protective equipment: Long sleeves, loose clothing recommended.

SECTION IX SPECIAL PRECAUTIONS

Storage and handling conditions: Keep containers tightly closed when not in use. KEEP FROM FREEZING.

Special shipping information: Not regulated by the Transportation of Dangerous Goods Regulations.

Prepared by: PermaDri, Incorporated • **Preparation date:** 04/10/07