

**“New innovative product for damp proof and waterproof coating protection, environmentally engineered to provide a tough surface protection and weatherability performance”.**

## Product Information

IMRAE **CoatMasters® 7007** Dampproof and Waterproof Coating is a hybrid polymeric system designed to provide a tough film surface with excellent water resistance. The coating upon cure leaves no tack residue or imprints, ideal for heavy or large precast application requiring mechanical lifting and/or movement. The coating also exhibits a high degree of UV stability in terms of color and hardness, and it will not soften upon exposure to continuous direct sunlight.

IMRAE **CoatMasters® 7007** Dampproof and Waterproof Coating can be applied on both above and below ground applications to help protect water penetration onto the surface and retard moisture diffusion into coated surfaces, respectively.



IMRAE **CoatMasters® 7007** Dampproof and Waterproof Coating can be easily applied, by either roller or spray, for quick set-up and clean-up operation.

## Meets ASTM Testing on Coating Film Performance Characteristics

- ASTM C836 Shore-Type 00 Durometer (81 hardness)
- ASTM D5385/D5385M-20 Hydrostatic Pressure Resistance of Waterproofing Membranes (Cold-Applied) 100 PSI max Pressure Test - PASS (No leak – 1 Hour)
- ASTM D751 Hydrostatic Resistance, Mullen Type, Met-A, Pro-1 (36 psi)
- ASTM E96 Water Vapor Transmission (18 perms, in-lb.)
- ASTM D2939-03 Emulsified Bitumen as Protective Coating Resistance to Heat (Passed, 25mm, 100 deg. C for 2-hrs) Resistance to Water (Passed, min 7 days, no adhesion failure) Direct-Flame Test (Passed, 10 sec blue flame test) Resistance to Impact (Passed, 2 lbf/8-ft, no adhesion failure)
- ASTM D1640 Dry Time (30-50 mils wet film thickness) 30-60 minutes – tack free @ 77 deg. F 4 – 6 hrs. – dry hard @ 77 deg. F 24 hrs. – dry through @ 77 deg. F
- ASTM D4400 Sag-Test (30 mils wet film thickness)
- ASTM D7234 Pull-Off Strength (Concrete: 100% Cohesive Break) Minimum: 300 PSI smooth surface
- See supplemental TDS for additional test data information.

## Environmentally and Regulatory Compliant Coating

Growing environmental consciousness and regulations demands low VOC on various coatings in general. **CoatMasters® 7007** Dampproof and Waterproof Coating meets Federal and State CA-Rule 1113 of the Air Quality Management District requirement for product containing a minimum of 50% post-consumer material and meeting the 250 grams/liter maximum content.

## Performance Characteristics

Additional benefits as a coating:

- Can be applied after 24-hours on freshly de-molded concrete.
- Hard film coating provides excellent adhesion even to other incidental surfaces, such as wood or metal.
- High abrasion resistance will prevent lifting off coated surfaces during handling and/or transportation.
- Multiple coatings can be applied to build-up more thickness, from 40-80 mils dry-film thickness as desired with no delamination or sagging.
- Highly UV stable will not change color even up to long-term.
- VOC compliant < 250 grams / liter meets AQMD Rule 1113 for coatings containing 50% post-consumer material.

For more product information, please review Technical Data Sheet (TDS), on coverage, preparation, and application. For handling, regulatory compliance, and disposal instructions please read Safety Data Sheet (SDS) for details.



## Product Packaging

All **CoatMasters® 7007** products are available in 5-gallon, 55-gallon, and 275-gallon totes only.

## Disclaimer

The information and recommendations made are on our own studies and research that are believed to be accurate. However, no guarantee of accuracy is given mainly due to variations caused by actual application and substrate conditions of the material used. The customer must conduct appropriate testing to ensure compatibility and suitability for all its intended use.

## TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION:

CM 7007 Dampproof and Waterproof Coating is a vapor coating retarder applicable on new precast concrete. The product, a mixture of emulsified acrylic (min. 50% post-consumer) and bituminous polymers of low VOC, is designed for above and below grade coating applications on concrete, stucco, masonry type substrates, modified bitumen, and rigid polyurethane foam ply, and rigid PVC materials. This modified acrylic and bituminous coating also provides excellent adhesion on incidental applications on metal and wood substrates. This product is breathable for concrete.

CM 7007 Dampproof and Waterproofing Coating is a high solids system and provides a seamless durable coating, superior adhesion and flexibility to a variety of substrates, fungicide and mildewcide protection, UV protection, and heat reflective properties saving cooling costs, and provides water resistance and vapor permeability. It comes in a standard grey color and can be color matched to any darker colors.

### TECHNICAL DATA:

Polymer Type: Acrylic-Bituminous Emulsion Polymer  
 Viscosity: 120 +/- 3 KU (Stormer)  
 Weight per Gallon (WPG): 10.20 +/- 0.20  
 Solids by Weight: 50% (minimum)  
 Shelf Life: 1-Year  
 Meets Federal and State VOC limit requirements for volatile organic components (VOC).  
 Complies with South Coast Air Quality Management District (SCAQMD) VOC limit.

ASTM D2939-03 / MSMT 423: Resistance to Flow and Sag  
 PASS (113 deg. F /4-hrs & RT/24-hrs)  
 Imperviousness / Chemical Exposure Test  
 5% Solution Sulfuric Acid (24-hrs):  
     PASS (No chemical attack 73.4 deg. F)  
 5% Sodium Hydroxide Solution (24-hrs):  
     PASS (No chemical attack 73.4 deg. F)  
 Saturated Sodium Chloride Solution (24-hrs):  
     PASS (No chemical attach 73.4 deg. F)

### LEED POINT CREDITS

MR Credit 4.1: Recycled Content: 10%, (post-consumer + 1/2 pre-consumer) - 1 Point  
 MR Credit 4.2: Recycled Content: 20%, (post-consumer + 1/2 pre-consumer) - 1 Point in addition to MR Credit 4.1  
 Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 10% (based on cost) of the total value of the materials in the project.

MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally – 1 Point  
 MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally - 1 Point in addition to MR Credit 5.1  
 Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% (based on cost) of the total materials)

EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings - 1 Point Do not exceed the VOC content limits established in South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.

### AREA COVERAGE:

Various substrates have different porosity conditions, and the estimated coverage spread for a gallon is based on actual testing. Actual test results may vary depending on the actual porosity condition of the substrate applied. The list below provides the area coverage in square feet (sq. ft.) for 1-gallon of CM 7007 Dampproof and Waterproof Coating.

General Smooth Concrete Surfaces: 40-60 square feet / gallon for dampproof coating application and a minimum of 20-square feet / gallon for waterproofing application.

Application Thickness: 20-30 mils DFT (dry-film thickness) in 1 coat and can be applied in multiple coats of up to 3 coats, depending on desired vapor permeability and waterproofing protection. Must apply a minimum of 40-mils up to 60-mils DFT for waterproofing requirements.

### SURFACE PREPARATION:

The surface to be applied must be free from any dirt or other foreign materials that will impair bonding to substrate. Refer to NACE No. 6 / SSPC 13 for Surface Preparation of Concrete, must meet the minimum ASTM D4258 for surface cleaning method to remove any type of foreign contaminants. As needed, other surface cleaning options stated under the guideline can be employed, such as ASTM D4259 or ASTM D4260.

Check for moisture content prior to coating and must not exceed over 15% prior to coating application. The concrete surface will be tested for surface moisture prior to coating application, using either a plastic sheet method referencing ASTM D4263 for qualitative (PASS/FAIL) visual evaluation or a portable handheld instrument for quantitative evaluation, using an electrical resistance or electrical impedance (ASTM F2659). The quantitative method takes precedence over qualitative methods in determining approval to proceed in coating applications.

CM 7007 Dampproof and Waterproof Coating is specifically designed to have excellent adhesion properties with other CoatMasters product (please contact Technical Service Support for guidance) and does not provide warranty with other coating or paint products. Always check the test substrate for adhesion performance prior to completely applying the product, always test to ensure compatibility with other coating for other planned applications. CM 7007 Dampproof and Waterproof Coating must be used as-is, DO NOT THIN WITH WATER or OTHER SOLVENTS, do not contaminate or mix with unapproved material.

Use of material requires knowledge of standard safety practices and good protection for areas being applied, keep children and pets away from the work area. Maintain good air ventilation if used indoors. The material is ideally applied in ambient temperatures below 100°F. If planned to be used in warmer conditions, spray application would help ensure better spread coverage. Not recommended to be applied below 40°F or when rain is imminent.

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#### **PRODUCT APPLICATION:**

The product can be applied by brush, roller, or spray. For spray applications, the product can be both applied by either spray atomization or airless techniques. The most common is the use of hand-held texture sprayer for easy clean-up. Follow manufacturer recommendations for spray applications and optimize when the desired coating is achieved. For airless or air assisted sprayers use texture spray nozzles with a minimum 4-mm orifice size to start, and always maintain a uniform number of coating application.

Recoat Window: 30 -60 min at 77°F condition.

For recoating application, the coating must be tacky and not sagging.

For elevated field temperature situations due to high humidity and low temperature, use a digital hygrometer to take environmental reading conditions, such as ambient and surface temperatures with relative humidity to estimate “Dew Point”. Measure the difference of surface temperature and less dew point temperature, difference must be no less than plus 5-degrees to be able to apply the product. Should rising ambient temperature occurs for favorable applications, ensure environmental parameters meets all specified guidelines, prior to coating application.

#### **STORAGE AND DISPOSAL:**

The product must be stored in a cool and dry place, always seal container after using. The shelf-life of the product is 1-year at 77°F storage condition and could be longer depending on conditions. Avoid the material from freezing, before using mix the product thoroughly until homogenous in appearance. Empty containers must be disposed of according to your local city, state, and federal guidelines. Do not throw liquid portions to any drains, avoid spills, and always protect the environment.

#### **TECHNICAL SUPPORT:**

Technical service support is available to answer any questions regarding other product performance characteristics, safety, and product application with no obligation. Please call (951) 413-0240 for Technical Service Support, 8AM – 5PM PST.