

# CoatMasters®

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## TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION:

CM 2007 is an advanced low VOC formulation designed for use as a penetrating system and functions as a water repellent for treating masonry surfaces. This water-based system is made up of advanced oligomeric silicone emulsion of silane and siloxane mixtures, suitable for use on various grades of alkaline mineral substrates. This is ideal for treating porous and non-porous type building materials on various surfaces of newly constructed, rehabilitated, or restored conditions. The product can be applied on precast concrete, clay roof tiles, exterior plaster, calcium silicate brick, light concrete, natural stone, high-density fiber boards, clay brick, and terracotta.

CM 2007 provides long lasting protection against water vapor permeability, and resistance to staining and/or color deterioration. The product will naturally protect color, and continuously provide a breathable porous substrate. Additional benefits include excellent water repellency, minimized spalling, and a low odor, enabling ease of application by brush, roll, flow, and/or spray.

### TECHNICAL DATA:

Appearance of Liquid: Opaque milky liquid

Specific Gravity: 1.005 – 1.009

pH: 7.5 – 8.5

Flash point: 90°C / 194°F

Active substance content: 80%

Freeze thaw limit stability: 0°C / 32°F

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.

### 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 actual porosity condition of the substrate applied. The list below provides the area coverage in square feet (sq. ft.) for 1-gallon of CM 2007.

Coverage Rates (Square feet / gallon)	CM2007
Concrete (Dry Cast) Porous	100-150 sq.ft.
Concrete (Wet Cast) Porous	125-175 sq.ft.
Concrete (Wet Cast) Polished	200-250 sq.ft.
CMU	100-150 sq.ft.
Exterior Plaster	100-150 sq.ft.
GFRC (Glass Fiber & Polymer)	150-200 sq.ft.
High-Density Fiber Cement	150-200 sq.ft.
Masonry (Joints and Seals)	100-150 sq.ft.
Natural Stone	150-200 sq.ft.
Stucco (Porous)	100-150 sq.ft.
Stucco (Painted)	150-200 sq.ft.
Split-face Block	100-150 sq.ft.
Terracotta	150-200 sq.ft.

## **SURFACE PREPARATION:**

The surface to be applied must be free from any dirt or any other foreign materials that will impair bonding to substrate. CM 2007 after curing will not cause any adhesion failures on other top coating films, always test to ensure compatibility. CM 2007 can be applied on either dry or slightly damp surfaces. However, excessive moisture can affect penetrating performance thus reducing treatment efficiency.

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 fairly ambient temperatures below 100 °F. If planned to use in warmer conditions, spray application would help ensure better spread coverage. Not recommended to be applied on temperatures below or near freezing temperatures 32°F (0°C), as this will cause the liquid to freeze.

## **PRODUCT APPLICATION:**

For spray applications, the product can be both applied either by using a short foam nap-roller for smaller jobs or via spray atomization or airless techniques for larger size applications. Please follow recommended spray pressure application and optimize when desired coating is achieved, preferably using fan widths from 6 – 10 inches either with 9 (0.009”), 13 (0.013”), or 15 (0.015”) thousandths of an inch size tips, including fine-finish low pressure type tips of similar sizes.

Guideline for selecting spray tip for Airless and High-Volume Low Pressure (HVLP).

Proper tip size selection is important and is designated according to tip size. For example, a typical 515 tip size, the first digit refers to the fan width and is half the size of the working fan width. The second and third digits refers to the orifice size in thousandths of an inch.

Example, a typical airless GRACO or Titan sprayers with select Tip number 515 is identified as follows:

First digit 5 = 10” fan pattern at about a foot away from the object sprayed  
Second and third digits 15 references the orifice size in thousandths of an inch

Always maintain good saturation of the substrate, depending on the porosity successive coatings may be needed to ensure good penetration. Do not over coat when material overruns the substrate, this is a sign of saturation. Wait between coats, the surface must be reasonably dry, and no wet-look appearance is observed.

## **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 at least 1-year in 77°F storage condition, and longer depending on conditions. Avoid the material from freezing, and before using mix the product thoroughly until homogenous in appearance. Empty containers must be disposed according to your local city, state, and federal guidelines. Do not throw liquid portions to any drains, avoid spills, and always protect the environment.

## **PACKAGING:**

The product is available is available in 1-gallon F-type containers, 5-gallon pails, 55-gallon drums, and 275-gallon totes (1-gal net = approx 8.30 lbs).

## **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 and ask for Technical Service Support. 8 AM – 5 PM PST

## **DISCLAIMER:**

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