

PRODUCT IDENTIFICATION

# PERMAROOF® MB COLD ADHESIVE

#400CA05  
5 gallon pail

A COLD APPLIED ADHESIVE FOR MODIFIED BITUMEN ROOF SYSTEMS

## Description

PERMAROOF MB Cold Adhesive is a proprietary cold process asphalt adhesive for modified bitumen membrane systems.

## Uses

PERMAROOF MB Cold Adhesive is designed for application as an adhesive for PERMAROOF MB roof membranes over approved roof insulation and base sheets.

## Limitations

PERMAROOF MB Cold Adhesive is not intended to perform under ponding conditions. PERMAROOF MB Cold Adhesive is not to be used as an insulation adhesive. PERMAROOF MB Cold Adhesive is not to be exposed to solvents, oils or other contaminants harmful to asphaltic materials.

## Advantages

PERMAROOF MB Cold Adhesive reduces equipment need and start-up time. PERMAROOF MB Cold Adhesive has a low odor and can be used in restrictive areas.

## Grade

Spray/brush/squeegee. Can be heated to facilitate application by using an oil-jacketed heat exchanger. If using a squeegee must use a triangular notched to provide 30-35 mil thick uniform application.

## Coverage

Coverage rate is 2 gallons / 100 square feet per ply.

## Equipment Spray

Pump: Pneumatic or hydraulic pump with a minimum 2200 psi material output pressure. Output flow rate must be 3 GPM (gallons per minute) or greater for efficient production rates.

Spray tip/fluid hose: Reversible spray tip with 0.052" to 0.072" orifice and a 40° to 60° spray fan. Material fluid hose must be properly rated for the maximum working pressure of the pump being used.

Clean up: Mineral spirits.

## General Application

Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down and numerous other conditions.

The following application information is designed to serve as a general guide. Detailed specifications should be prepared based upon each roof's conditions.

## Structural Decks

Must be properly designed and structurally sound.

## Drainage

Ponding conditions are unacceptable and will adversely affect performance of any roofing system. If positive drainage does not exist, water removal must be facilitated by lowering drains, and/or installing additional drains or tapered insulation.

## Insulation

Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day.

## Acceptable Insulations

Type	Minimum Thickness	Facer
Wood Fiber	1/2" (13mm)	Asphalt Coated
Fibrous glass	3/4" (19 mm)	Paper
Gypsum	1/4" (6mm)	Treated Fiberglass

## TECHNICAL DATA

<b>Asbestos content EPA 600/R-93/116</b>	None
<b>Viscosity @ 77°F ASTM D 2196-86</b>	80,000-200,000 cP
<b>Density @ 77°F ASTM D 6511-00</b>	8.1 lb/gal
<b>Nonvolatile Content ASTM D 6511-00</b>	67%
<b>Asphalt Content ASTM D 93-97</b>	min. 42%
<b>Flash Point ASTM D 93-97</b>	>100°F
<b>Uniform &amp; Consistency ASTM D 6511-00</b>	Pass



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# PERMAROOF<sup>®</sup> MB COLD ADHESIVE

Maximum size: 4' x8' (1219 mm x 2438mm)

\*Minimum thickness for application of PERMAROOF MB Cold Adhesive LV. Follow insulation manufacturer's instructions to obtain minimum thickness for spanning metal deck ribs.

## Installation Procedures

According to job specifications, prepare the surface to be covered:

- Replace areas of wet insulation, deteriorated deck and wood components.
- Install roof insulation or base sheet.

Plan placement of PERMAROOF MB System to ensure that water flows over or along, but not against exposed edges. Starting at low point of roof, embed asphalt coated base sheet in a uniform continuous application of PERMAROOF MB Cold Adhesive LV. Apply PERMAROOF MB membrane in a fresh application of PERMAROOF MB Cold Adhesive LV.

Lap 4" (100mm) minimum; end laps 6" (150mm) minimum. Offset laps from base sheet laps. Stagger end laps 36" (approx. 1m) minimum. Apply pressure to end lap areas to assure positive adhesion.

To assure complete and uniform adhesion adhesive should exude past lap edges.

## Surfacing Options

Gravel: Apply PERMAROOF MB Cold Adhesive LV over roof surface at 5 gallon / 100 square feet. Immediately broadcast 400-500 lb / 100 square feet of new, clean

aggregate into adhesive. Aggregate shall conform to ASTM D 1863-93.

Smooth Surface: The following application information is designed to serve as a general guide. Detailed specifications should be prepared based upon each roof's conditions.

## Precautions

Users must read container labels and Material Safety Data Sheets for health and safety precautions prior to use.

## Maintenance

A scheduled, periodic maintenance inspection of the PERMAROOF MB Cold Adhesive installation is recommended. Punctures may occur through mechanical damage, vandalism, etc., and should be attended to as quickly as possible. Always follow NRCA standards.

## Technical Services

Advice on technical concerns may be solicited any time by contacting Republic Powdered Metals Inc. For project start-ups where the contractor has received material and the work is to commence, it is necessary to coordinate the involvement of Republic's Independent Sales Representative and Technical Field Service Department. A field service representative will be dispatched to the project for start-up assistance and final inspection to ensure a proper installation.



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The information provided on this data sheet is effective as of November 2005 and supersedes all previous data concerning this product and its application.

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