

DESCRIPTION AND USE

Breathable Masonry Coating® II combines the beauty of high-quality paint with the protective power of breathable water repellents. BMC® II lets water vapor escape from masonry, while stopping destructive liquid water from entering. The masonry's appearance is preserved, and its service life is prolonged.

BMC® II dries to an attractive flat finish. It's compatible with the ChromaFlo (formerly ColorTrend) colorant system for achieving predictable color matches. BMC® II is available in four different bases, allowing for the greatest range of colors. The bases are Pastel, Tint, Deep and Accent. BMC bases are custom tinted by local distributors. Call PROSOCO Customer Care toll free at 800-255-4255 for your local distributor or for additional information about BMC® II.

BMC® products have been used on the U.S. Capitol and many other historic and contemporary buildings throughout the United States and Europe. Its unique silicone emulsion formulation makes the coating more resistant to weathering (UV, moisture and soiling) and so more durable and lasting than most conventional paints.

**BMC® II is recommended for these substrates. Always test.
Coverage is in sq.ft./m. per gallon.**

Substrate	Type	Use?	Coverage
Architectural Concrete Block	Burnished	yes	100-150 sq.ft. 9-14 sq.m.
	Smooth	yes	
	Split-faced	yes	
	Ribbed	yes	
Concrete	Brick	yes	100-300 sq.ft. 9-28 sq.m.
	Tile	yes	
	Precast Panels	yes	
	Pavers	yes	
	Cast-in-place	yes	
Fired Clay	Brick	yes	150-350 sq.ft. 14-33 sq.m.
	Tile	yes	
	Terra Cotta	yes	
	Pavers	yes	
Marble, Travertine, Limestone	Polished	no	NA
	Unpolished	yes	100-300 sq.ft. 9-28 sq.m.
Granite	Polished	no	NA
	Unpolished	yes	100-300 sq.ft. 9-28 sq.m.
Sandstone	Unpolished	yes	100-250 sq.ft. 9-23 sq.m.
Slate	Unpolished	yes	100-350 sq.ft. 9-33 sq.m.

Always test to ensure desired results. Coverage estimates depend on surface texture and porosity.

PERFORMANCE

Vapor Permeability

BMC® II exhibited breathability with a water vapor transmission in excess of 470 g/m²/24 hours at 6 dry mils when run in accordance with ASTM D1653 Standard Test Methods for Water-Vapor Transmission of Organic Coating Films. BMC® II is nearly twice as breathable as traditional exterior flat acrylic latex paints and elastomeric paints. It's up to seven times more breathable than conventional alkyd coatings. BMC® II does not trap damaging moisture in the masonry.

Adhesion Characteristics

BMC® II achieved a top score of "4A" - nearly perfect - on adhesion test ASTM D 3359 on concrete. In adhesion test ASTM D 4541, the concrete itself pulled apart before the coating could be pulled off. BMC® II remained adhered against pressure of up to 367 pounds per square inch. BMC® II has excellent adhesion to concrete and masonry.

ADVANTAGES

- Highest vapor permeability available.
- Field-proven technology used on the U.S. Capitol and other U.S. and European landmarks.
- Excellent UV stability.
- Excellent hiding.
- Easy application with roller, brush or spray. No primer needed.
- Silicone emulsion formula resists soiling.
- Good adhesion. Exceptional color retention.
- Ideal for interiors or exteriors. No harsh odors.
- Complies with all known national and state AIM VOC regulations.

Limitations

- Not for horizontal surfaces.
- Not suitable for application on some resin paints.
- Manufacturer does not endorse use of organic colorants. Use of organic colorants for color matching may result in color fading.
- Do not apply to metal.
- Not available in South Coast Air Quality Management District.

TYPICAL TECHNICAL DATA

pH: 9.0 - 10.0

FLASH POINT: >200°F (>93°C) ASTM D 3278

FREEZE POINT: 32°F (0°C) Do not freeze.

BINDER: Silicone resins, acrylic resins

GENERIC TYPE: Silicone emulsion color coating

DRYING TIME: (Normal 77°F, 50% Relative Humidity)

Touch: 45 minutes

Recoat: 2 hours

TYPE OF CURE: Coalescence

REDUCTION SOLVENT: Water

CLEAN UP SOLVENT: Water

SHELF LIFE: 1 year in tightly sealed, unopened container

BMC® II	Pastel	Tint	Deep	Accent
% solids by Wt.	56	55	48	43
% solids by Vol.	38	38	34	31
% pigment by Wt.	42	41	33	28
Specific gravity	1.41	1.38	1.28	1.22
Wt. per gallon (lbs.)	11.76	11.55	10.66	10.15

VOC Information

US EPA: maximum VOC content 600 g/L

CARB SCM Districts: maximum VOC content 400 g/L

Maricopa County, AZ: maximum VOC content 250 g/L

NEOTC: maximum VOC content 400 g/L

PREPARATION

Protect people, vehicles, property, metal, and all surfaces not set for coating from product, residue, splash, fumes and wind drift. Use drop cloths or other proven protective material. Protect and/or divert foot and vehicle traffic.

Surfaces must be clean, dry and absorbent. Correct the causes of moisture-related stains before applying BMC® II. Thoroughly clean efflorescence, algae and other moisture-related stains. In coastal areas, check for salt contamination. Call PROSOCO Customer Care toll-free at (800) 255-4255 for cleaning recommendations.

Roughen or abrade glazed or glossy surfaces for proper adhesion before applying BMC® II.

BMC® II needs no primer, though a priming coat may be applied if desired. Use Sure Klean® Weather Seal Siloxane WB at a dilution ratio of one part product to 19 parts water. Apply BMC® II within 48 hours of primer application.

Surface and Air Temperatures

Do not apply if temperatures are colder than 40°F (4°C), or expected to be within 24 hours. Do not apply to surfaces hotter than 95°F (35°C).

Equipment

Apply BMC® II with roller, brush or airless sprayer.

Storage and Handling

Store in a cool, dry place. Always seal container after dispensing. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperature of 45-100°F (7-38°C). Keep from freezing. Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

APPLICATION

Before use read “Preparation” and “Safety Information.”

ALWAYS TEST each type of surface for suitability and results before overall application. Test using the following application instructions. Let tests dry thoroughly before inspection.

Dilution

Do not alter or dilute except for use in sprayers. The concentrate may need thinning with up to 5 percent fresh water, based on surface and drying conditions, and equipment. Mix well before use.

Color Uniformity

BMC® II from multiple containers must be “boxed” (mixed) to ensure color uniformity.

Application Instructions

1. Mix well.
2. Use roller, brush or airless sprayer to apply a smooth, uniform coating, 7 wet mils thick. Work from the top down. Brush out runs or drips. Back roll spray applications for proper adhesion and good coating performance.
3. Let first coat dry 2-4 hours
4. Reapply. The second coat should be 4 mils thick.

Drying Time

Protect from rain for at least 6 hours or until coating is thoroughly dry. Coating dries completely in 48 hours.

Cleanup

Clean equipment with warm water and mild detergents. Use solvent paint thinner to remove dried-on BMC® II

SAFETY INFORMATION

BMC® Breathable Masonry Coating II is a water-reduced, silicone emulsion. Use appropriate safety and job site controls during application and handling. Read the full label and MSDS for precautionary instructions before use.

First Aid

Ingestion: Do not induce vomiting. If vomiting occurs, keep victim's head lower than waist to prevent aspiration. Seek medical attention.

Eye Contact: Rinse thoroughly for 15 minutes. Get medical assistance if irritation persists.

Skin Contact: Remove contaminated clothing and rinse thoroughly. Get medical attention if irritation persists. Launder contaminated clothing before reuse.

Inhalation: Remove to fresh air. Get medical attention as necessary.

24-Hour Emergency Information: INFOTRAC at 800-535-5053

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO, Inc. warrants this product to be free from defects.

Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose. The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

CUSTOMER CARE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care – technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at www.prosoco.com, for the name of the BMC® representative in your area.