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Architectural Concrete Solutions

## BOMASEAL C-18

### Technical Bulletin and Application Guideline

Bomaseal C-18 is a high-quality, solvent-based acrylic sealer designed to permanently seal concrete and masonry surfaces. Treatment with Bomaseal C-18 provides a non-yellowing, medium gloss finish that will protect the surface from water, dust, stains and dirt. Bomaseal C-18 may be used on new and existing exterior surfaces and is formulated with lower solids content for reduced gloss and deeper penetration into the surface being treated. When applied according to directions, Bomaseal C-18 will enhance concrete, terrazzo, masonry or similar surfaces (especially colored concrete surfaces).

#### **FEATURES AND BENEFITS:**

- *Enhances decorative concrete*
- *Lower solids, penetration formulation*
- *Improves freeze-thaw resistance*
- *Improves aesthetic appearance of new or existing surfaces*
- *Available in wide color selection*
- *Repels contaminates*

#### **GENERAL INFORMATION:**

##### **Colors**

Clear and tinted. Bomaseal C-18 can be tinted using a Bomanite Solvent-based Tint Concentrate. Refer to any Bomanite Color Chart. Custom colors are also available.

**NOTE: Tints may vary slightly from batch to batch. Be sure to order enough tinted material initially to complete a specific job. Consult the appropriate Bomanite literature for applicable products.**

##### **Coverage Rates**

Material usage, per coat, is approximately 250-400 square feet per gallon for textured surfaces and 300-500 square feet per gallon for smooth finish. Actual coverage may vary depending on type, age and condition of concrete, application method and other local conditions.

##### **Packaging**

Available in 1-gallon, 5-gallon and 55-gallon units.

##### **Storage and Shelf Life**

Approximately six months if kept from freezing and exposed to air. Keep at a 40 °F minimum.

##### **Product Data**

Odor .....	Sweet
Solids .....	18%
Specific Gravity.....	0.91
Density .....	7.5 pounds per gallon
Flash Point.....	82 °F (C.O.C. method)
VOC .....	735 grams/liter. Not VOC compliant in all areas. Before use, consult regulations to determine if complies with VOC regulations in your area.

Gloss.....	85 (ASTM D523-89)
Safety.....	Exceeds slip resistance requirements (ASTM D2047)
Recoat .....	Excellent (ASTM D3153-87)
Drying Times (will vary depending on temperature and humidity)	
Set To Touch .....	30 to 60 minutes after application
Recoat.....	2 to 4 hours after each application
Light Traffic .....	24 hours after final coat

### **Application**

#### **NEW CONCRETE**

**Warning:** *Do not apply to fresh concrete. Recommended minimum time for concrete to cure prior to Bomanite C-18 application is seven days, with an optimal 14-day cure. The surface must be clean and completely dry or Bomaseal C-18 may turn white or fail to form a proper film, leading to premature failure. Sealer will dry rapidly, so avoid application in hot weather.*

Apply Bomaseal C-18 with a high volume/low pressure sprayer or pump-up sprayer, medium to heavy nap non-linting roller or other solvent-resistant applicator. Coat the surface uniformly without leaving puddles, heavy application lines or uncoated areas as this may show in the final finish. Multiple light coats are superior to one heavy application, with complete drying between coats (approximately two to four hours). Additional coats will increase gloss, durability and provide extra protection. The use of Bomaseal C-27 as a topcoat over C-18 will provide superior build if desired. Let final coat cure for a minimum 24 hours before opening to light traffic and 48-72 hours before opening to heavy or vehicle traffic. Two light coats at the recommended coverage are normally sufficient to seal and protect. Bomaseal C-18 is not required to be thinned for most application purposes.

#### **EXISTING OR OLD CONCRETE**

**Warning:** *The surface must be clean and completely dry or Bomaseal C-18 may turn white or fail to form a proper film, leading to premature failure. Sealer will dry rapidly, so avoid application in hot weather.*

Surface must be thoroughly cleaned, rinsed and allowed to dry. Dilute one part Bomanite Concrete Degreaser to eight parts water and scrub the concrete with the degreaser solution using brooms or low speed buffer equipped with scrubbing pads or brushes. Collect used cleaning solution whenever possible for proper disposal and then rinse with clean, pressurized water. Etching of surface may be necessary if calcium salts are present – use Bomanite Con-Clean for this application. If applying over old sealer, test prior to application in an inconspicuous area to ensure compatibility. Apply as for new concrete – see directions above. **Before application of this product, test in an inconspicuous area for desired results. If in doubt, consult Bomanite Corporation.**

### **Maintenance**

Bomaseal C-18, like all surface sealers, must be kept clean for maximum durability and protection. Frequent removal of loose soils will significantly increase the service life of Bomaseal C-18 or any surface coating. For removal of ground-in soils, use Bomanite Floor Cleaner diluted two to four ounces per gallon of water. Scrub with a broom, pressure wash or use a low speed buffer equipped with red or blue scrub pads (light cleaning). Periodic resealing may be required dependant upon use and degree of care taken to maintain the sealer. Bomaseal C-18 may be removed using Bomaseal Stripper.

### **Cautions**

- Bomaseal C-18 is a solvent-based product and therefore caution must be exercised in its use.
- Adequate ventilation will be necessary with the applicators wearing appropriate protective gear such as gloves, eye protection, respirators, solvent resistant clothing etc.
- Keep out of the reach of children.
- Do not take internally.
- See Material Safety Data Sheets for complete information.

### **Limitations**

- Bomaseal C-18 is not recommended for interior applications. Open flames, such as those associated with water heaters, furnaces and temporary heat sources, will cause ignition of the solvent fumes. It is strongly recommended that a water-based acrylic sealer, such as Bomanite HydroLock or Bomanite Hydrocoat, is used for interior applications.
- Bomaseal C-18 will protect concrete from dusting and soiling if applied properly, evenly and with sufficient coverage as outlined in the application directions. Application of too little Bomaseal C-18 will result in inadequate protection for the concrete. Overapplication may inhibit the breathability and freeze/thaw resistance.
- Failure to maintain the concrete in a reasonably clean condition by sweeping or wet cleaning will result in premature wear and failure to protect the concrete. Occasional resealing may be required for optimal service life.

- If efflorescence is present when sealing existing or old concrete, this may be an indication of excessive hydrostatic pressure from moisture in or beneath the concrete. Additional remediation of this problem will be necessary. Before applying Bomaseal C-18, determine if excessive moisture is present in the concrete by performing a test according to ASTM D4263. Apply an 18 inch by 18 inch piece of four mil plastic to the concrete when dry. Tape down with two-inch duct tape and leave for at least 16 hours. Remove plastic and examine. If moisture exists on the underside of the plastic or on the surface of the concrete, there is moisture in the concrete. A penetrating sealer should be applied prior to the application of Bomaseal C-18. Consult the Bomanite Sealers/Finishes Cross Reference Guideline for more information on specific products.
- Consult the appropriate Bomanite Technical Bulletin and Application Guideline for the correct uses and limitations of any Bomanite products used in conjunction with Bomaseal C-18.

**Warranty**

This product is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller and manufacturer obligations under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product.

***Additional product information, technical bulletins and specifications are available online at [www.bomanite.com](http://www.bomanite.com) or through one of our Bomanite Licensed Contractors. For additional assistance with specifications or technical issues, contact Bomanite.***