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Architectural Concrete Solutions

# Technical Bulletin

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June 2009

## **BOMANITE FLORTHANE SB** HIGH SOLIDS, LOW VOC, CHEMICALLY RESISTANT FLOOR SEAL FOR CONCRETE AND MASONRY

### **DESCRIPTION**

Bomanite Florthane SB forms a high-solids coating that will preserve and protect any above-grade concrete, masonry and stone while acting as a tough, durable soil and chemical resistant barrier. Bomanite Florthane SB will inhibit the passage of water or any other liquid, retard efflorescence, and will resist peeling, flaking, blistering or discoloring of properly prepared substrates. Bomanite Florthane SB is compatible with all stone and masonry surfaces. Before use, test in an inconspicuous area. If in doubt, consult Bomanite Corporation.

### **VOC COMPLIANCE**

Less than 340 grams per liter VOC content.

### **SURFACE PREPARATION**

Surfaces shall be dry, structurally sound, clean and free of dirt, grime and other foreign substances (efflorescence, oils, silicones, all other waterproofing materials, form release agents, curing and parting compounds, etc.). If stripping of old sealer is necessary, use Bomanite Interior Floor Strip or consult a Bomanite Technical Representative. Cleaning of concrete and masonry should be performed using a solution of one part Bomanite Concrete Degreaser per eight parts water, scrubbing with a mechanical scrubber equipped with a scrubbing brush or pad. Concrete floors (e.g. hangars, warehouses, garages) must be etched with one part Bomanite Con-Clean diluted with four parts water, followed by neutralization with two ounces of Bomanite Concrete Degreaser per gallon of water. Rinse thoroughly and allow to dry before application. If applying over Bomanite Florthane SB more than eight hours old, sand surface with a 120-grit screen disk, followed by cleaning with Bomanite Floor Cleaner diluted to two ounces per gallon of water. Rinse thoroughly and allow to dry before application. For tinting options, consult a Bomanite Technical Representative.

### **MIXING INSTRUCTIONS**

Strictly adhere to mixing instructions. Add one part of Bomanite Florthane SB Part B (Cure) to one part of Bomanite Florthane SB Part A (Resin) in an open container. Mix well before using. DO NOT mix more than can be used in a 90-120 minute period.

### **APPLICATION**

Pretest painted surfaces on an inconspicuous area to prevent attack of sensitive and/or fresh paints. The Bomanite Florthane SB system should be applied by airless spray or lambswool applicator. Material shall not be applied if surface or ambient temperature is below 45 °F or if the temperature is expected to fall below freezing (32 °F) within the 24-hour curing cycle. For airless spraying at normal room temperatures, use a No. 18 orifice and line pressure of 300-500 psi. Use the lowest pressure that will produce a satisfactory "fan". Coverage will vary with porosity of substrate but will average 300 to 400 square feet per gallon. Two coats of Bomanite Florthane SB are recommended to achieve a four to seven mils thick membrane. The second coat must be applied within four to eight hours after the first coat to assure proper adhesion.



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## SPECIFICATIONS

COLOR.....	Clear
ODOR.....	Sweet
SOLIDS CONTENT.....	67%
TINTING AVAILABLE.....	Yes
SPECIFIC GRAVITY (when mixed).....	1.027
DENSITY (when mixed).....	8.56
MIX RATIO.....	1:1 by volume
VISCOSITY (when mixed).....	300 - 500 cps. (Brookfield RVF-100, spindle #3, 50 RPM)
POT LIFE.....	90 to 120 minutes
COVERAGE.....	300 to 500 square feet per gallon
EXTERIOR DURABILITY.....	Excellent.
RESISTANCE TO WATER.....	Excellent.
CHEMICAL RESISTANCE.....	Excellent (See attached chart)
FLASH POINT.....	82 °F (C.O.C. Method)
DRYING TIME (at 68 °F 50% relative humidity)	
RECOAT.....	4 to 8 hours
LIGHT TRAFFIC.....	8 to 12 hours
HEAVY TRAFFIC.....	1 to 3 days
GLOSS FINISH.....	99 (ASTM Test D-523, 60 °F)
SATIN FINISH (after addition of AC-696).....	35 (ASTM Test D-523, 60 °F)
SAFETY (under foot).....	Exceeds slip resistance requirements (ASTM Test D-2047)
PACKAGE SIZES.....	2-gallon kit (1 gallon Part A, 1 gallon Part B) 10-gallon kit (5 gallons Part A, 5 gallons Part B)

## CHEMICAL RESISTANCE CHART

### Tests conducted under the following conditions:

Temperature.....	68 °F; 50% RH
Dwell time of reagent.....	30 minutes
Film thickness.....	approx. five mils (two coats)
Coverage.....	350 square feet per gallon (1st coat) 400 square feet per gallon (2nd coat)
Dry times.....	4 hours between coats 3 days dry and cure before chemical tests

## REAGENTRESISTANCE

### Acids (aqueous)

10% Acetic	Slight brown stain	Film blistered
10% Chromic		No effect
10% Hydrochloric		No effect
10% Citric		No effect
10% Phosphoric		No effect
10% Sulfuric		No effect
10% Lactic		No effect
Animal urine		No effect

### Alkalis (aqueous)

Ammonium hydroxide	No effect
Calcium hydroxide	No effect
Potassium hydroxide	No effect
Sodium hydroxide	No effect
Detergents	No effect



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## **Foods/Drugs**

Iodine	Dark brown stain
Merthiolate	Light red stain
Mustard	No effect
Orange juice	No effect
Lemon juice	No effect

## **Oxidizing Agents (aqueous)**

Calcium hypochlorite	No effect
Chlorine water	No effect
Sodium hypochlorite	No effect

## **Inorganic Salts (aqueous solutions)**

Calcium chloride	No effect
Sodium acetate	No effect
Sodium chloride	No effect
Sodium phosphate	No effect

## **Solvents**

Alcohols	No effect
Aliphatic hydrocarbons	No effect
Aromatic hydrocarbons	No effect
Aviation gas #120	No effect
Greases	No effect
Gasoline	No effect
Jet fuel	No effect
Motor oil	No effect
Skydrol 7000	No effect
Skydrol 500A	No effect
Wagner brake fluid	No effect

## **Gases (moist)**

Bromine	No effect
Carbon dioxide	No effect
Chlorine	No effect
Hydrogen sulfide	No effect
Nitration acid fumes	No effect
Sulfur dioxide	No effect
Hydrogen fluoride	No effect

## **SPECIFICATION ASSISTANCE**

Consult The Bomanite Company for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

## **WARRANTY**

This product is warranted to meet uniform quality standards within conventional manufacturing tolerances. Since no control is exercised over product use, no warranty or guarantee, expressed or implied, can be made to its use. Seller's and manufacturer's obligation under this warranty is limited to reimbursement of the purchase price of the portion of the product proven to be defective. The user assumes all risks and liability resulting from the use of this product.