

PRODUCT NAME

Gem-Gard® Stain OP SB

(Opaque - Solvent Borne)
Water-Repellent Penetrating Stain

MANUFACTURER

Gemite® Products Inc.

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FEATURES

- Superior water repellency
- Maintains surface texture
- Long term color stability
- Allows moisture vapor transfer
- Reduces dirt and surface staining
- Minimizes efflorescence and migrating salts
- Reduces spalling and freeze/thaw deterioration
- Protects and extends life of structures

PRODUCT DESCRIPTION

Basic Use

Water-repellent penetrating stain for above-grade poured and precast smooth, textured or exposed aggregate concrete, cement board, concrete block (standard, lightweight and pumice), brick, natural stone and stucco. *Gem-Gard Stain OP SB* provides permanent color uniformity and corrects natural color imperfections of the substrate to beautify, protect and extend life of structures.

Composition and Materials

Unique waterborne formulation of *Gem-Gard Stain OP SB*, using inorganic oxide pigments, assures long term color stability, ultraviolet resistance, freeze/thaw resistance and alkali and pollution resistance. *Gem-Gard Stain OP SB* is integrally locked into the substrate due to its penetration properties and will not chip, peel or flake. It forms a water-repellent, but permeable (“breathable”) barrier which will prevent passage of water without preventing the normal transmission of water vapor to the outside atmosphere.

Limitations

Do not apply below grade or over damp surfaces, or if rain is imminent, or if either surface or ambient temperature is 4°C (40°F) or below, or when humidity is over 90%. Do not apply over painted surfaces or wood surfaces. *Gem-Gard Stain OP SB* is not designed to waterproof cracked surfaces under wind driven rain or other severe conditions.

Health and Safety

Solvents are flammable in liquid state. Use only in a well ventilated area. Keep away from heat, sparks and open flame. No smoking shall be allowed in or near the immediate work area. Use explosion proof equipment. Avoid breathing of vapor or spray mist. For exterior applications approved chemical cartridge respirator should be worn by the applicator. For interior application, use mechanical exhaust such as approved air line or positive pressure hose masks. For additional information on safety requirements, refer to *Gem-Gard Stain OP SB* MSDS. FOR INDUSTRIAL USE ONLY. Keep the product out of reach of children.

Color

Variety of colors are available. Every effort is made to fill each order using the same batch number, but different batch numbers of the same color are occasionally sent to complete an order. Whenever this occurs it is the sole responsibility of the applicator to make certain that only one batch number is used on any one side of the building. Different batch numbers cannot be used on the same wall unless they are mixed together to ensure total color uniformity. When panels are stained at the factory ascertain that all panels attached on one side of a building are stained with the same batch.

Packaging

Gem-Gard Stain OP SB is a one component, ready-to-use liquid material, packaged in 20 L (5.3 USG) pails and 209 L (55.2 USG) drums.

Yield	m ² /L	ft ² /USG
Concrete	4.4-5.9	180-240

Apply approximately 1/2 of total *Gem-Gard Stain OP SB* in each of two separate applications over concrete.

The coverages are only given as guideline and depend greatly on the roughness and porosity of the substrate, absorption rate. Two-coat application is generally required for color uniformity. Prior to application a field test should be conducted on a small, inconspicuous area of the structure to determine suitability of the application technique and the actual application rate for color uniformity. Written approval should be obtained from Architect / Owner prior to general application.

Storage and Transportation

Two years in unopened containers. Store at temperatures above 10°C (50°F) and less than 29°C (85°F). Packaged 36 pails per pallet or 4 drums per pallet.

TECHNICAL DATA

Meets Federal Specification TT-C-555 B and Ontario Housing Corporation Specifications. Approved by MT Ontario.

Accelerated Weathering (ASTM G 23-69 2500 hr)	Excellent color retention and resistance to chalking
Salt Spray/Fog 1000 hrs exposure (ASTM D-1645 & 117)	Excellent color retention and no staining (efflorescence)
Sulfide Staining (ASTM D-1712)	Excellent color retention
Chemical Reagents (ASTM D-543)	Excellent resistance
Salt Scaling (mod. ASTM C-672)	No scaling
Permeance (ASTM E-96)	25.6 perms (1470.3 ng/Pa.s.m ²)
Weight	1.32 kg/L (11 lbs/Gal.)
Volume Solids	34%

INSTALLATION

Guide Specification and Application Instructions contain additional information specific to each application and must be followed.

Surface Preparation

All surfaces must be structurally sound, clean, surface dry and fully cured. New concrete and masonry must cure for 2 weeks minimum. Remove all dirt, dust, efflorescence, curing or form release agents, cement scaling and previous coatings by wire brush, waterblasting, scraping or other means. Surfaces such as smooth dense brick, smooth dense or GFR concrete and cement board must be sandblasted for maximum penetration. If *Gem-Gard Stain OP SB* cannot penetrate, it will debond. Repair old cracks, openings and imperfections in the substrate prior to *Gem-Gard Stain OP SB* application.

Mixing

Mix thoroughly, minimum 5 minutes, before application. Do not thin. Use air operated or other explosion proof mixer with a blade capable of uniformly mixing entire container.

Application

Use airless spray equipment capable of delivering 6,980 KPa (1,000 psi) and 1.9 L (1/2 USG) per minute delivery. Heavier equipment can be used on larger projects. Do not thin. Roller and brush application is recommended only for confined areas or for edging work. Brush or roll *Gem-Gard Stain OP SB* at the same rate as spray application to minimize finished color variations. Two coats of *Gem-Gard Stain OP SB* are recommended for best results. The second coat can be applied as soon as the first coat is dry. Each coat shall be first sprayed uniformly in a horizontal direction, followed by a vertical overlapping uniform application (“cross coat”) method. Application that fully and evenly wets the entire surface without sags or runs prevents unsightly lap or rundown marks. Establish break lines conforming to surface design breaks where possible. Recoat in 1 hour at 21°C (70°F).

Curing

Gem-Gard Stain OP SB is air dry-cured. It will be tack free and accept rain within 1/2 to 2 hours. Fully cured in 5 to 7 days depending upon temperature and relative humidity.

Clean Up

Clean all spray equipment and hoses immediately with mineral spirits or xylol. Overspray on glass, metal and painted surfaces should be immediately wiped up with mineral spirits or xylol.

AVAILABILITY AND COST

Gem-Gard Stain OP SB is available worldwide. Contact the manufacturer for the name of the nearest Representative or Distributor and pricing information. When ordering specify the color. Custom color suitability and pricing must be established by Gemite before order can be processed.

MAINTENANCE

Gem-Gard Stain OP SB is self-washing. The atmospheric dust collected on the surface can be easily cleaned with water based detergent and water. If repair is required, simply apply more of the same product.

WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For complete details contact Gemite’s Head Office.

TECHNICAL SERVICE

Advice on suitability of *Gem-Gard Stain OP SB* for specific application, application instructions and specification assistance is available from Technical Service: USA 888-443-6483 or Canada 905-672-2020.

Short Specification

The water repellent stain will be a solvent based, pure acrylic resin system, *Gem-Gard Stain OP SB*, as manufactured by Gemite Products Inc., [USA 888-443-6483] [Canada 905-672-2020]. It shall be applied at a minimum rate of ___ ft²/USG (___ m²/L) per manufacturer’s current Guide Specifications and Application Instructions. It will meet all the Technical Data specified in the current *Gem-Gard Stain OP SB* Product Data Sheet.