

PRODUCT NAME

# Gem-Cote™ EP WB Clear

## Multipurpose Water Borne Epoxy Coating/Sealer



MANUFACTURER

Gemite® Products Inc.

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CANADA

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FEATURES

- Gloss, Non-Blush Film
- Nearly no odor
- Easy to apply
- Very low VOC
- Self leveling and air releasing
- Low viscosity
- Fast cure
- Excellent strength and impact resistance properties
- Excellent adhesion
- Prepackaged containers for easy mixing
- Easy to clean tools with water
- Not regulated for transportation

PRODUCT DESCRIPTION

Basic Use

*Gem-Cote EP WB Clear* is designed for sealing and protecting new & old interior concrete, polymer modified concrete overlays, and other repair mortars. It is suitable for foot traffic and vehicular pneumatic tires. Having only 0.8 g/L VOC and virtually no odor allows for application indoors without sacrificing performance commonly found in solvent based epoxy sealers. Due to greatly varying temperature and relative humidity conditions, it is recommended that water vapor transmission is tested to ensure performance of *Gem-Cote EP WB Clear*. New concrete or cement based overlays must be cured for a minimum of 7 days prior to application of *Gem-Cote EP WB Clear*. Concrete slabs with water vapour transpision above 5 lbs/1000 ft<sup>2</sup>/24 hours (the chloride test), should be treated first with *Gem-Cote EP WB Primer*. The *Primer* coat must be cured for a minimum 8-10 hours, depending on temperature and relative humidity, prior to application of the *Gem-Cote EP WB Clear*. Consult Gemite Technical Service when applying solvent containing coatings over *Gem-Cote EP WB Clear*. Note:*Gem-Cote EP WB Primer* reduces or eliminates out gassing bubbles and bonds well to clean, sound and surface dry concrete, wood, metal and other clean substrates. It is not designed as finish, traffic bearing coating.

Composition and Materials

*Gem-Cote EP WB Clear* is a two component water borne epoxy. It consists of resin (Component A) and waterborne curative (Component B). When mixed and applied, it provides a thin, clear coating.

Limitations

Do not apply *Gem-Cote EP WB Clear* when the temperature is expected to go below 10°C (50°F) within 24 hours or when rain is imminent. Consult the manufacturer for application over previously treated substrate.

Health and Safety

*Gem-Cote EP WB Clear* is nonflammable and not dangerous in transportation. Use safety goggles and chemical resistant gloves. If contact with skin occurs, wash with water. Harmful if digested. Keep the product out of reach of children. FOR INDUSTRIAL USE ONLY. Consult MSDS for additional information.

Colors

*Gem-Cote EP WB Clear* is greenish when mixed and turns clear after drying and curing. The color packs are available for achieving various colors. Contact Gemite Products Inc. Technical Service

Packaging

*Gem-Cote EP WB Clear* is packaged as a two component kits, in 5.67 L (1.5 USG) and 11.34 L (3 USG) kit packaging.

Yield

The coverage of *Gem-Cote EP WB Clear* is 6.14 - 7.37m<sup>2</sup>/L (250-300 ft<sup>2</sup>/USG). The coverages are only given as guideline and depend greatly on the roughness and porosity of the substrate, thickness of the application and application method used. Carry out field application to determine the exact material quantity requirements.

Storage and Transportation

Shelf life of materials in unopened pails is one year. Store in temperatures between 18-29 °C (65-85°F). **Material must not freeze.**

TECHNICAL DATA (7 days cure at 24°C - 77°F)

Solids by volume	48%
Volatile organic content -VOC	0.8 g/L
Pot Life at 24°C (77°F)	1 hour
Tack free at 24°C (77°F)	4-5 hours
Foot traffic	7-8 hours
All traffic	24 hours
Recoat time at 24°C (77°F)	6-8 hours

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3 & 9

03064 Concrete Sealers  
09780 Floor Treatment

Viscosity at 24°C (77°F) , Part A	600 cP
Viscosity at 24°C (77°F) , Part B	300 cP
Mixed	400 cP
Pot life	1 hour
Recommended DFT film thickness	125 - 175 microns 5-7 mils
Mix Ratio per USG	Part A 0.703 USG, Part B 0.297 USG
Finish	>60@60°-Erchsen glossmeter
Abrasion resistance, CS 17 Wheel, 1000 g, 500 cycles	40 mg
Impact resistance	Gardener Impact, 50 in-lb (passed)
Flexibility	No cracks or defects on 3mm (1/8 in) mandrell
Adhesion to concrete	Concrete Failure, > 1.5 MPa (217 psi).

## INSTALLATION

### Surface Preparation

Remove all loose particles, clean off all grease, laitance, dirt and efflorescence, coatings, sealers, adhesives, curing compounds by shotblasting. Make sure that all gypsum compounds are removed and the concrete surface is durable, not suffering from alkali silica reactivity. Smooth and power trowelled surfaces must be roughened to allow *Gem-Cote EP WB Clear* to penetrate. Do not grind the surface. If grinding must be used, please contact Gemite Technical Service. Acid etching must not be used.

### Mixing

Mix in the ratio 1 Part A into 1 Part B by volume. Immediately after mixing Part A & Part B. It is important to disperse the resin thoroughly in the emulsified curative to obtain a homogeneous mixture. Avoid aeration of the mix. Use only recommended paddle for epoxy resins, a slow speed motor (below 400 rpm), and mix for a minimum of 5 minutes. Once mixed, use all the materials.

### Application

The surface must be thoroughly cleaned and dry. Apply one coat of *Gem-Cote EP WB Clear* by brush, roller or squeegee at the rate of 6.14 - 7.37m<sup>2</sup>/L (250-300 ft<sup>2</sup>/USG). Leave no areas untreated. Avoid puddling, and back-roll. Back-roll again in 20 minutes if pinholes are present. Provide good ventilation to allow for air exchange during curing/drying. Do not apply *Gem-Cote EP WB Clear* when ambient surface temperatures are below 10°C (50°F) and above 32°C (90°F). The relative humidity must be below 80%.

tion of subsequent coating systems. Examine thoroughly the surface for pinholes, inadequate film thickness and apply the second coat, if required, after the first coat cures for at least 8 hours. Do not apply touchups or the second coat later than 24 hours. Since performance characteristics may vary from project to project, always test water vapor transmission after installation of *Gem-Cote EP WB Clear* to ensure it has been reduced to required levels.

### Curing

*Gem-Cote EP WB Clear* will cure sufficiently in 8-10 hours depending on temperature and relative humidity. Maximum recoat time, (adhesives included) is 5 days, providing no dust or other contaminants are present.

### Clean up

Clean tools and equipment immediately after use with water. For dry material use MEK or xylol.

### AVAILABILITY AND COST

Available worldwide. Contact Gemite for the name of the nearest Representative / Distributor and pricing information.

### MAINTENANCE

No maintenance required.

### WARRANTY

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

### TECHNICAL SERVICE

For advice on suitability of *Gem-Cote EP WB Clear* for a specific application, specification assistance and application advice contact Gemite Technical Service at: USA 888-443-6483 or Canada 905-672-2020.

### Short Specification

The coating/sealer will be *Gem-Cote EP WB Clear*, a water borne epoxy coating as manufactured by Gemite Products Inc. [USA 888-443-6483] or [Canada 905-672-2020]. It will meet all the Technical Data specified in the current *Gem-Cote EP WB Clear* Product Data Sheet.