

PRODUCT NAME

Gem-Bond Permanent ST Concrete Bonding Adhesive



MANUFACTURER

Gemite® Products Inc.

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FEATURES AND BENEFITS

- Superior adhesion
- Waterborne
- Easily applied
- Provides a permanently “tacky surface” for bonding of cement mortars and concrete
- Highly economical

PRODUCT DESCRIPTION

Basic Use

Gem-Bond Permanent STTM is a water borne agent for bonding of cement based mortars or concrete to concrete substrates. After application to the concrete surface it provides permanently “tacky” surface, allowing a good adhesion of mortars or concrete. *Gem-Bond Permanent ST* hardens on contact with wet cement materials. Unlike re-emulsifiable, polymer emulsion based bonding agents, which exhibit poor bond in wet environments, *Gem-Bond Permanent ST* exhibits an excellent resistance to re-emulsification and excellent bond in wet environment. *Gem-Bond Permanent ST* It can be let exposed for weeks and will remain “tacky”. Also, it will not form a hard film on drying, exhibited by conventional latex bonding agents. Gem-Bond Permanent ST is particularly suitable in applications where the access to concrete surface is hindered by the presence of forms or reinforcement. If migrating corrosion inhibitor (MCI) is required in the bonding agent, please use *Gem-Bond Permanent Plus*.

Composition and Materials

Gem-Bond Permanent ST, a high performance primer, is formulated with modified acrylic emulsion, combined with additives providing adhesion, mildew resistance and a high durability. The water borne formula is VOC compliant.

Limitations

Do not apply when rain is imminent. Surface and ambient temperature during and 24 hours after the application must not be less than 7°C (45°F) or above 32°C (90°F). Fresh (green) concrete or cement plaster must be cured for at least ten days prior to the application of *Gem-Bond Permanent ST*. Must not freeze. Check for the Gem-Bond permanent ST adhesion, when dealing with very smooth hardened concrete surface.

Health and Safety

Gem-Bond Permanent ST is nontoxic and nonflammable. 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-Bond Permanent ST is milky color and dries to a clear film.

Packaging

Gem-Bond Permanent ST is one component, ready-to-use liquid material, packaged in 20 L (5.3 USG) pails.

Coverage

Gem-Bond Permanent ST: approx. 10-12 m²/L (400 - 480 ft²/USG). Carry out field application to determine the exact material quantity requirements.

Storage and Transportation

Shelf life of unopened containers is two years. Store in temperatures above 4°C (40°F). Must not freeze. Packaged 36 - 20 L pails per pallet.

TECHNICAL DATA

Viscosity	300 cp
pH	8.5
Weight	1.02 kg/L (8.53 lbs/USG)
Colour	Milky white

INSTALLATION

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

Surface Preparation

The concrete surface must be free of contaminants and prepared as for any application of cement based materials to concrete. IMPORTANT: *Gem-Bond Permanent ST* does not replace proper concrete surface preparation. Please contact Gemite Technical Service for concrete cleaning/surface preparation instructions. .

Application

Do not thin *Gem-Bond Permanent ST*. Short or medium nap roller can be used to apply *Gem-Bond Permanent ST*. Conventional low pressure spraying equipment is also suitable for application of *Gem-Bond Permanent ST*.

Clean Up

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

Gemite Products Inc.
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03063 Bonding Agents
03700 Concrete Restoration

Curing

Gem-Bond Permanent ST can be left open to air drying for several weeks. It will form a clear, “tacky” and active surface for bonding in a relatively short time - 30-40 minutes depending on temperature and relative humidity. The application of cement mortars or concrete can commence as soon as the “tacky”, clear surface is obtained, or within several weeks. If *Gem-Bond Permanent ST* is left drying for a longer period of time, check the surface for being “tacky” - it could get contaminated by excessive area dusting.

AVAILABILITY AND COST

Gem-Bond Permanent ST is available worldwide. Contact Gemite for the name of the nearest Representative / Distributor and pricing information. When ordering specify the finish, smooth or textured, and color. When ordering a custom color, the color suitability and pricing must be established by Gemite before order can be processed.

MAINTENANCE

No maintenance is 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-Bond Permanent ST* for specific application, specification assistance and application advice contact Technical Services at (888) 443-6483 or (905) 672-2020.

Short Specification

The concrete bonding adhesive will be *Gem-Bond Permanent ST*, a water borne modified acrylic emulsion as manufactured by Gemite Products Inc., [USA 888 443-6483] [Canada 905 672-2020]. It shall be applied in accordance with manufacturer's current guide specifications and application instructions. Contact Gemite Products Inc. for specification assistance and application instructions.