

PRODUCT NAME

Cem-Kote® Plus

Waterproofing Coating

MANUFACTURER

Gemite® Products Inc.

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FEATURES

- One component material
- Long term crack resistance
- Superior freeze/thaw resistance
- Very low shrinkage
- Non-flammable
- Salt resistant
- Vermin proof
- Non-toxic
- Easy application

PRODUCT DESCRIPTION

Basic Use

Cem-Kote Plus is a high toughness, flexible, waterproofing coating, especially formulated for horizontal, vertical and overhead waterproofing of new and existing concrete and masonry.

Cem-Kote Plus is suitable for sewage, municipal and industrial waste water utilities. It provides an excellent waterproofing of tunnels and structures exposed to hydrostatic pressure up to 15 meters of waterhead pressure at 1mm (40 mils) thickness..

Composition and Materials

Cem-Kote Plus is a one component (add water only), hydraulic cement based, dry polymer enhanced coating (slurry).

Limitations

Do not apply *Cem-Kote Plus* when the temperature is expected to be below 4° C (40°F) within 48 hours, or when a water flow is imminent. Use Hot Weather concreting precautions when applying in temperatures exceeding 25°C (77°F) or under sunny and windy conditions. *Cem-Kote Plus* is a very thin coating and the limiting water head pressure is 15 meters. If the pressure is higher apply a thicker coating or use *Cem-Kote CW Plus*.

Health and Safety

Cem-Kote Plus is non-toxic and non-flammable. Your skin might be sensitive to cement. We recommend use of rubber gloves. Avoid contact with skin. If contact occurs, flush immediately with water. Seek medical advice if irritation occurs. Harmful if digested. Keep product out reach of children. FOR INDUSTRIAL USE ONLY. Consult MSDS for additional information.

Color

Industrial Grey, Light Grey and White.

Packaging

Cem-Kote Plus is one component material, packaged in 17 kg (37.5 lbs) bags.

Yield

Cem-Kote Plus yields 15.8 L (0.57ft³) and covers approximately 31.45 m² @0.5 mm (333 ft²@ 20 mils) thickness per bag, applied in two (2) coats. (62.9 m² or 666 ft² per coat per bag)

The actual coverage will depend on surface roughness and the thickness applied. The applicator must carry out a sample application to determine the actual coverage for the given substrate and application thickness.

Storage and Transportation

Cem-Kote Plus, when stored on pallets in a dry, cool area, free from moisture and direct sunlight has a shelf-life of 12 months. Packaged 55 bags per pallet.

TECHNICAL DATA

Compressive Strength (ASTM C109) 28 days	40.0 - 41.4 MPa (5,800-6,000 psi)
Bond Strength (pull-off)	2-3 MPa (300-450 psi)
Water Vapor Permeance (ASTM E 96, 3 mm, dry cup)	283 ng/Pa .s.m ² (5.20 perms)
Hydraulic Impermeability (TTP 1411, negative side, 2 mm)	15 m (50 ft) water head
Salt Scaling Resistance (ASTM C672)	excellent
Freeze/Thaw Resistance (ASTM C666, Procedure A)	<1%

INSTALLATION

Current Guide Specification and Application Instructions contain additional information specific to each application and must be followed. Consult Gemite’s Technical Service before starting a project to ensure the correct surface preparation, crack treatment, application procedures and suitability for a given environment.

Surface Preparation

Remove all deteriorated and loose concrete, form release agents, oil, grease, laitance, dust, dirt and efflorescence by dry or wet sandblast, shotblast, or high pressure water (min. 6,000 psi). The proper surface preparation is essential for a successful waterproofing and concrete repair using *Cem-Kote Plus*.

Surface Repair

Any active water leaks must be stopped using *Fibre-Patch WP (Water Plug)*. Deeper surface deterioration should be repaired

with *Fibre-Patch TC* (thin coat) or *Fibre-Patch OV* (overhead). Clean it thoroughly with high pressure water before application of *Cem-Kote Plus*. *Cem-Kote Plus* should be applied within 48 hours after the surface repair and cleaning is completed.

Reinforcing Steel

Remove all loose rust from any exposed reinforcing steel and apply two coats of *Fibre-Prime* rustproofing.

Crack Treatment

Any existing cracks must be treated separately. Contact Gemite Technical Service for information regarding crack treatment.

Mixing

Mix each bag, 17 kg (37.5 lb.), with approximately 7.48 L (1.97 USG) of water. Use a mortar mixer or a drill (400-600 rpm) with a mixing paddle. Gradually add the dry material into water and mix until a smooth and lump free mix is obtained. Do not overmix the material. Adjust the water for the desirable consistency for brush application and a little stiffer consistency for trowel application.

Application

Apply *Cem-Kote Plus* in two (2) coats, to a saturated surface damp substrate, to build up approximately 0.5 mm (40 mils) thick layer. No wetting is required between the coats. The re-coating must be done not sooner than 2 hours and not later than 4 hours. Use a stiff fibre brush or short nap roller. Contact Gemite Technical Service for advice when spray application is being considered. *Cem-Kote Plus* is designed to be applied in thin layers only, typically 0.5-1 mm (20-40 mils). On drying it form a tough a high abrasion resistant coating.

Curing

Air dry cure *Cem-Kote Plus* for a minimum of 48 hours. When working under tarps at freezing temperatures, use electrical heaters. Avoid using propane heaters to prevent "carbonation" of the material.

Clean Up

All tools must be cleaned with water immediately after use. Cured material can only be removed mechanically.

AVAILABILITY AND COST

Cem-Kote Plus is available worldwide. Contact Gemite Products Inc. for the name of the nearest Representative/ Distributor and current pricing information.

MAINTENANCE

None required.

WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For details, contact Gemite's head office.

TECHNICAL SERVICE

For advice on suitability of *Cem-Kote Plus* for specific application, specification assistance and application instructions, contact Gemite Technical Service at: USA 888-443-6483 or Canada 905-672-2020.

Short Specification

The waterproofing coating (slurry) shall be *Cem-Kote Plus*, waterproofing coating, as manufactured by Gemite Products Inc. [USA 888-443-6483] [Canada 905-672-2020]. It will be mixed and applied according to manufacturer's specifications and recommendations. Contact Gemite Products Inc. for Specification Assistance, Application Instructions and surface preparation method.