

PRODUCTNAME

Gem-Plast® TC (Thin Coat) Finishing Waterproofing Plaster

MANUFACTURER

Gemite® Products Inc.

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CANADA

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FEATURES

- Self-curing
- High crack resistance
- Tough and durable
- Excellent bond
- Waterproof
- Can be featheredged
- Easy to clean
- Superior freeze/thaw resistance
- Non-flammable
- Non-toxic
- Breathable
- Excellent workability

PRODUCTDESCRIPTION

Basic Use

Gem-Plast TC is a waterproofing and finishing plaster for concrete and masonry. It is suitable for interior and exterior applications in swimming pools, floors and walls in cold storage rooms, water reservoirs and as a wall plaster for food processing plants.

Composition and Materials

Gem-Plast TC is a polymer modified, Portland cement based plaster. It is available as a Concentrate and as a complete Pre-mix.



Limitations

Do not apply *Gem-Plast TC* when the temperature is expected to be below 4°C (40°F) within 48 hours, or when rain is imminent. Follow Hot Weather concreting precautions when applying *Gem-Plast TC* at temperatures exceeding 25°C (77°F), or under sunny and windy conditions. Maximum applied thickness must not exceed 6 mm (1/4 in).

Health and Safety

Gem-Plast TC 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 and White.

Packaging

Gem-Plast TC Concentrate consists of dry Component A packaged in 7.7 kg (17 lbs) bags and liquid Component B, packaged in 6.1 L (1.6 USG) plastic jugs.

Gem-Plast TC Pre-mix is a one component material, packaged in 22.7 kg (50 lbs) bags.

Yield

Gem-Plast TC Concentrate, when mixed with the specified amount of cement, sand and water, yields 61.2 L (2.3 ft³) and covers approximately 20.4 m² @ 3 mm (221.8 ft² @ 1/8 in) thickness per unit mix.

Gem-Plast TC Pre-mix, when mixed with water, yields 12.5 L (0.44 ft³) and covers approximately 4.2 m² @ 3 mm (42.4 ft² @ 1/8 in) thickness per bag.

Storage and Transportation

Gem-Plast TC when stored on pallets in a dry, cool area, has shelf-life of 12 months. Pack aged 30 kits (*Concentrate*) or 55 bags (*Pre-mix*) per pallet.

TECHNICAL DATA

Drinking Water Contact (MOE, Ontario)	approved
Food Contact (Agriculture and Food, Canada)	approved
Compressive strength (ASTM C109 modified)	34.5 - 37.9 MPa (5000 - 5500 psi)
Modulus of Rupture (ASTM C348)	5.5 to 6.9 MPa (800-1,000 psi)
Freeze/Thaw Resistance (ASTM C 666- Procedure A)	Weight loss < 1 %

INSTALLATION

Current Guide Specification and Application Instructions contain additional information specific to each application and must be followed. Contact Gemite's Technical Service for information specific to your application.

Surface Preparation

Remove all loose particles, dirt, oil, grease, form release agents, laitence, efflorescence and any other bonding materials by wet or dry sand blasting, or high pressure water blast (min. 6,000 psi {410 bar}). The substrate must be in a saturated surface dry (SSD) condition and free of any standing water.

Crack Treatment

Any existing cracks must be treated separately.

Mix Design & Mixing

<i>Gem-Plast TC Concentrate</i>	Metric	US
Dry Component A	7.7 kg	17.0 lbs
Liquid Component B	6.1 L	1.6 USG
Portland Cement (Type 10/1)	40.0 kg	94.0 lbs
Mortar (Silica) Sand	60.0 kg	141.0 lbs
Water	17.0 L	4.8 USG

Use paddle or helix mortar mixer. Place mixing water and the liquid Component B in the mixer. Add dry Component A, sand and cement and mix until free of lumps.

Gem-Plast TC Pre mix

Mix *Gem-Plast TC Pre mix* with 4.2 L (1.1 USG) of water. Use paddle or helix mortar mixer, or heavy duty (400- 600 rpm) drill with a mixing paddle. Gradually add the dry material into water while mixing and mix until a smooth and lump free mix is obtained.

Do not overmix *Gem-Plast TC*. Adjust the water for the desirable consistency for brush application and a little stiffer consistency for trowel application.

Application

Apply *Gem-Plast TC* by trowel to a uniform specified 3 - 6 mm (1/8 - 1/4 in) thickness.

Curing

Protect against rapid drying by water misting, wet bur lap or non-solvent surface evaporation retardant for 24 hours.

Clean Up

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

AVAILABILITY AND COST

Gem-Plast TC is available worldwide. Contact Gemite Products Inc. for the name of the nearest Representative / Distributor and current pricing.



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 *Gem-Plast TC* for specific application, specification assistance and application instructions, contact Technical Service: USA 888-443-6483 or Canada 905-672-2020.

Short Specification

The [finishing][water proofing] plaster will be *Gem-Plast TC*, a polymer modified mortar 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 and application instructions. The *Gem-Plast TC* will meet the following requirements:

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Food Contact (Agriculture and Food, Canada)	approved
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Modulus of Rupture (ASTM C348)	5.5 - 6.9 MPa (800-1,000 psi)
Freeze/Thaw Resistance (ASTM C 666) Procedure A	Weight loss < 1 %