

PRODUCT NAME

Gem-Plast™ TC (Thin Coat) Leveling & Finishing Waterproof Plaster



MANUFACTURER

Gemite® Products Inc.

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FEATURES

- Self-curing
- Highly Crack-Resistant
- Tough & Durable
- Excellent bond
- Waterproof
- Can be Featheredged
- Easy to Clean
- Superior Freeze/Thaw resistance
- Nonflammable
- Nontoxic
- Breathable
- Excellent Workability = Easy Application

PRODUCT DESCRIPTION

Basic Use

Gem-Plast TC is a waterproofing leveling & finishing plaster for interior & exterior applications over concrete & masonry. It is suitable for water reservoirs, wastewater tanks, swimming pools, floors and walls below and above grade, including cold storage rooms & food processing plants.

Composition and Materials

Gem-Plast TC is a one-component, polymer-modified, high performance cementitious plaster, used alone, or for levelling of surfaces before application of waterproofing coatings.

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 above 25°C (77°F), or under sunny and windy conditions.

Maximum applied thickness must not exceed 12 mm (1/2").

Health and Safety

Gem-Plast TC is nontoxic and nonflammable. Your skin might be sensitive to cement. We recommend using 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 SDS for additional information

Color

Industrial Gray and White.

Packaging

Gem-Plast TC is packaged in 22.7 kg (50 lbs) bags.

Yield

Gem-Plast TC yields 12.5 L (0.44 ft³) & covers approximately 4.2 m² @ 3 mm (42.4 ft² @ 1/8") thickness per bag.

Storage and Transportation

Gem-Plast TC, when stored on pallets in a dry, cool area, has shelf-life of 12 months. Packaged 55 bags 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 & 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 bond inhibiting materials by wet or dry sandblasting, or high pressure waterblast (min. 5,000 psi (35 MPa)). The substrate must be saturated surface damp & free of any standing water prior to application.

Crack Treatment

Any existing cracks must be treated separately. Contact Gemite's Technical Service for advice.

Mixing

Mix Gem-Plast TC with 5.0 L (1.3 USG) of water, using paddle or helix mortar mixer, or heavy duty (400-600 rpm) drill with a suitable mixing paddle. Gradually add dry powder into water, while mixing, and mix until the mix is smooth & lump free.

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Adjust the water for the desirable consistency for brush application, or a little stiffer consistency for trowel application. Do not exceed 5.2 L (1.4 USG) per bag. Do not overmix Gem-Plast TC.

Application

Apply *Gem-Plast TC* by trowel to a uniform specified 3 -12 mm (1/8" - 1/2") thickness. If spraying, use trowel to remove any air, and obtain a full contact throughout.

Curing

Protect against rapid drying by water misting, wet burlap 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 for name of nearest Representative / Distributor and current pricing.

MAINTENANCE

None required.

WARRANTY

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

TECHNICAL SERVICE

For advice on suitability of *Gem-Plast TC* for particular application, specification assistance & application instructions, contact Technical Service USA 888-443-6483 or Canada 905-672-2020.

Short Specification

The [leveling] [finishing] [waterproofing] plaster will be *Gem-Plast TC*, polymer modified mortar manufactured by Gemite Products Inc. [USA, 888-443-6483] [Canada 905- 672-2020].

It will be mixed & applied according to manufacturer's specifications and recommendations.

The *Gem-Plast TC* will meet following requirements:

Drinking Water Contact (MOE, Ontario)	Approved
Food Contact (Agriculture and Food, Canada)	Approved
Compressive strength (ASTM C109 Mod.)	34.5 - 37.9 MPa (5000 - 5500 psi)
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 %