

PRODUCT NAME

Gem-Plast® Flex ST

Finishing Waterproofing Plaster

MANUFACTURER

Gemite® Products Inc.

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CANADA

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Phone 905-672-2020
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FEATURES

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

PRODUCT DESCRIPTION

Basic Use

Gem-Plast Flex ST 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 Flex ST is a dry polymer modified, Portland cement based plaster.

Limitations

Do not apply *Gem-Plast Flex ST* 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 Flex ST* at temperatures exceeding 25°C (77°F), or under sunny and windy conditions. Maximum applied thickness must not exceed 12 mm (1/2 in).

Health and Safety

Gem-Plast Flex ST 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 Flex ST Premix is a one component material, packaged in 22.7 kg (50 lbs) bags.

Yield

Gem-Plast Flex ST Premix, 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 Flex ST when stored on pallets in a dry, cool area, has shelf-life of 12 months. Packaged 30 kits (*Concentrate*) or 55 bags (*Premix*) per pallet.

TECHNICAL DATA

Tensile strength	2.0-2.3 Mpa
ASTM D 412 Mod	290-330 psi
Tensile elongation	0.9-1.2 %
ASTM D 412 Mod	
Compressive strength (ASTM C109 modified)	34.5 - 37.9 MPa (4,000 - 4500 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 bond inhibiting materials by wet or dry sandblasting, or high pressure waterblast (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

Mix *Gem-Plast Flex ST Premix* 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 Flex ST*. Adjust the water for the desirable consistency for brush application and a little stiffer consistency for trowel application.

Application

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

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

Short Specification

The [finishing][waterproofing] plaster will be *Gem-Plast Flex ST*, 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 Flex ST* will meet the following requirements: