

PRODUCT NAME

# Fibre-Prime™

## Rustproofing Primer & Coating for Steel

MANUFACTURER

Gemite® Products Inc.

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ISO 9001:2008 Certified

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CANADA

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FEATURES

- Rustproofs and Protects Ferrous Metals
- Contains Effective Corrosion Inhibitors
- Waterborne Formulation
- Nontoxic
- No VOC
- Bonds to Wet Steel
- Excellent Freeze-Thaw Durability
- Applicator Friendly
- Economical
- Manufactured under ISO 2001
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PRODUCT DESCRIPTION

Basic Use

A proprietary, waterborne polymer modified cement slurry that provides excellent protection of ferrous substrates, used as a primer or finish coat in most immersed and non-immersed applications. Frequently used to repair & protect rebar. *Fibre-Prime* is also used as bonding agent applications of repair mortars or shotcrete. Apply repair mortar or shotcrete into “wet” *Fibre-Prime*.



Composition and Materials

*Fibre-Prime* is a two component kit, consisting of Component A (dry) and Component B (liquid). *Fibre-Prime* contains highly effective corrosion inhibitors active on both, anodic as well as cathodic corrosion sites.

Limitations

Do not apply *Fibre-Prime* when the temperature is expected to be below 40°F (4°C) within 24 hours or when rain is imminent. Consult the manufacturer for applications over previously coated steel surface.

Health and Safety

*Fibre-Prime* is nontoxic and nonflammable. 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

Dark Gray.

Packaging

*Fibre-Prime* kit consists of a dry Comp. A packaged in 9 kg (19.8 lb) bag and a liquid Comp. B packaged in 2.3 L (0.61 USG) plastic jug.

Yield

One kit of *Fibre-Prime* yields 5.5 L (0.19 ft<sup>3</sup>). It is applied in two (2) coats to a total thickness of 1 mm (40 mils), and it covers approx. 5.5 m<sup>2</sup> (59.0 ft<sup>2</sup>); or 117 LM (383 lineal ft) of 15 mm (5/8”) rebar, around the circumference of the rebar.

Gemite Products Inc.  
March 2017

3 & 9

09 97 13.23 Exterior Steel Coatings  
03 01 00 Concrete Maintenance

## Storage and Transportation

When stored on pallets in a dry, cool area the shelf-life of the dry Component A is 12 months. The liquid Component B must not freeze. Packaged 60 kits per pallet.

## TECHNICAL DATA

Compressive Strength (ASTM 109 Modified)	41.0-43.0 MPa (5940-6230 psi)
Adhesion to steel (Direct Tension Pull Off)	2.6-3.5 MPa (380-500 psi)
Freeze/Thaw Resistance (ASTM C666-A)	0% loss
Carbonation Resistance (R), 1.5 mm thick layer, Klopfer (R>50 m)	Equivalent air thickness R=1280 m. Equivalent concrete thickness is 3.2 m
H <sub>2</sub> S Resistance (Gemite ISO TP 012)	Very good. For excellent resistance, overcoat with Cem-Kote Flex CR or Gem-Cote EP 100
Cathodic Disbondment (CSA - Z245)	No disbondment

## 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 rust, grease, dust and other contaminants that could affect adhesion. Wet or dry abrasive sandblasting, or wire brush, is recommended. The "White metal" surface preparation is not required.

## Mixing

Place the liquid Comp. B into a clean container, and start adding dry Comp. A while mixing, using a drill (400-600 rpm) with a mixing paddle, until a smooth and lump-free brushable mix is obtained. Allow to sit for 3-5 minutes, then re-mix. Mix only the amount of material which can be applied within 45 minutes after mixing. Discard any material not used within 50 minutes.

## Application

Apply a thin coat of *Fibre-Prime* by brush or (slurry) spray. Let dry for 10-15 minutes and apply the second coat. At least 2 (two) coats are recommended, with a total min. dry film thickness of 1 mm (40 mils). *Fibre-Prime* is also used as an excellent bonding agent for concrete repair materials. Apply repair materials to "wet" *Fibre-Prime*. Contact Gemite Tech-Service for advice on specific applications.

## Curing

Cure by air drying.

## Clean Up

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

## AVAILABILITY AND COST

*Fibre-Prime* is available worldwide. Contact the manufacturer for the name of the nearest Gemite Representative or Distributor and 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 *Fibre-Prime* for a specific application, specification assistance & application instructions, contact Technical Service: US 888-443-6483 or Canada 905-672-2020.

## Short Specification

For ferrous metal corrosion protection use *Fibre-Prime*, manufactured by Gemite Products Inc., [USA 888-443-6483] [Canada 905-672-2020].

Performance requirements:

Compressive Strength (ASTM C 109 Modified)	41-43 MPa (5940-6230 psi)
Adhesion to Steel (Direct Tension Pull-Off)	2.6-3.5 MPa (500 psi)
Freeze/Thaw Resistance (ASTM C666-A)	0% loss
Cathodic Disbondment (CSA - Z245)	No disbondment
Carbonation Resistance (R), 1.5 mm thick layer, Klopfer (R>50 m)	Equivalent air thickness R=1280 m Equivalent concrete thickness 3.2 m
H <sub>2</sub> S Resistance (Gemite ISO TP 012)	Very good. For higher performance overcoat with Cem-Kote Flex CR, or Gem-Cote EP 100