PRODUCT NAME

Fibre-Prime™

Rustproofing Primer & Coating for Steel

MANUFACTURER

Gemite® Products Inc.

Toll Free: **888-4-GEMITE (888-443-6483)**
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ISO 9001:2008 Certified

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Phone 888-443-6483
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CANADA
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Phone 905-672-2020
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FEATURES

- Rustproofs & 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

PRODUCT DESCRIPTION

Basic Use

Waterbased polymer modified cementitious coating providing excellent protection of ferrous metals. *Fibre-Prime* is used as a primer, or finish coat, in most immersed & non-immersed applications. Protects rebar (reinforcing steel) from rusting.

Fibre-Prime is also used as bonding agent for repair mortars or shotcrete.

Always apply mortar or shotcrete into "wet" *Fibre-Prime*.

Composition and Materials

Fibre-Prime is a kit - dry Comp. A & liquid Comp. B.

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 Gemite Technical Service 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 SDS for additional information.

Color

Dark Gray.

Packaging

Fibre-Prime kit consists of a dry Comp. A - 9 kg (19.8 lb) bag + liquid Comp. B - 2.5 L (0.7 USG) plastic jug.

For large projects it is available in 22.7 kg (50 lb) bag + 6.3 L (1.7 USG) bottle.

Yield

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

Storage and Transportation

When stored on pallets in a dry, cool are the shelf-life is 12 months. The liquid Comp. 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_2S Resistance (Gemite ISO TP 012)	Very good. For excellent resistance, overcoat with Cem-Kote Flex CR or Gem-Cote EP 100
Cathodic Disbondement (CSA - Z245)	No disbondment

INSTALLATION

Current Guide Specifications & Application Instructions contain additional information specific to each application & must be followed. Contact Gemite 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 suitable mixing paddle until a smooth & 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 spray. Let dry for 10-15 minutes and apply the second coat.

At least 2 (two) coats are recommended for a total min. dry film thickness of 1 mm (40 mils).

Fibre-Prime is also an excellent bonding agent for mortar of concrete repair materials. Apply repair materials to "wet" Fibre-Prime.

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 Gemite for nearest 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 of *Fibre-Prime* suitability 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 Disbondement (CSA – Z245)	No disbondement
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_2S Resistance (Gemite ISO TP 012)	Very good. For higher performance overcoat with Cem-Kote Flex CR, or Gem-Cote EP 100