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 and Protects Ferrous Metals
- Contains Migrating Corrosion Inhibitors
- Waterborne Formulation
- Non-toxic
- No VOC
- Adhesion to Marginally Prepared Substrates
- Bonds to Wet Steel
- Excellent Freeze/Thaw Durability
- Applicator Friendly
- Economical
- Manufactured under ISO 2001:2008 Quality Management

PRODUCT DESCRIPTION

Basic Use

A proprietary, waterborne polymer modified cement slurry that provides excellent protection of ferrous substrates. Can be used as a primer and/or finish coat in most immersed and non-immersed applications. Frequently used to repair and protect rebar. The profiled surface of cured *Fibre-Prime* improves overhead and vertical applications of repair mortars or shotcrete. It is also an excellent bonding agent for concrete and concrete repair mortars.

Composition and Materials

Fibre-Prime is a two component material, consisting of a dry Component A and a liquid Component B. *Fibre-Prime* contains highly effective migrating 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 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

Dark Grey.

Packaging

Fibre-Prime consists of a dry Component A supplied in 9 kg (19.8 lb) bag and a liquid Component B, supplied in 2.3 L (0.61 USG) plastic jug.

Yield

One unit of *Fibre-Prime* yields 5.5 L (0.19 ft^3) and will cover approximately 5.5 m^2 (59.0 ft^2), or 116.8 lineal m (383 lineal ft) of 15 mm (5/8 in) rebar, applied in two (2) coats around the circumference of the rebar in total thickness of 1 mm (40 mils).

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
Resistance to Chloride Penetration (AASHTO T277)	430-520 Coulombs
Carbonation Resistance (R), 1.5 mm thick layer , Klopfer (R>50 m)	Equivalent air thickness R=1280 m Equivalent concrete thickness (assume ì concrete = 400) 3.2 m
H_2S Resistance (Gemite ISO TP 012)	Very good - for excellent resistance, overcoat with Cem-Kote Flex CR
Cathodic Disbondement (CSA – Z245)	No disbondment

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 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 Component B into a clean container. Add dry Component 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. A minimum of two coats are recommended, with a total dry film minimum thickness of 1 mm (40 mils). Contact Gemite Technical Services for 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 and application instructions, contact Technical Service: US 888-443-6483 or Canada 905-672-2020.

Short Specification

Basis-of-design for ferrous metal corrosion protection is *Fibre-Prime*, manufactured by Gemite Products Inc., [USA 888-443-6483] [Canada 905-672-2020]. Performance requirements:

Compressive Strength(ASTM C 109 Modified)	41.0-43.0 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
Resistance to Chloride Penetration (AASHTO T277)	430-520 Coulombs
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 (assume ì concrete = 400) 3.2 m
H_2S Resistance (Gemite ISO TP 012)	Very good - for higher performance overcoat with Cem-Kote Flex CR