

PRODUCT NAME

# Fibre-Patch® OV

## Concrete Patching Mortar

MANUFACTURER

Gemite® Products Inc.

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FEATURES

- One component material
- Easy overhead build up, 50 mm (2")
- Long term crack resistance
- Superior freeze/thaw resistance
- Self-curing
- Breathable
- Waterproofs
- Low shrinkage
- Non-flammable
- Salt resistant
- Vermin proof
- Non-toxic
- Economical
- Approved for potable water contact

PRODUCT DESCRIPTION

Basic Use

*Fibre Patch OV* is a fast set material, formulated to allow thin to thick overhead and vertical surfaces applications. It is suitable for balconies, ceilings, water reservoirs, tunnels, manholes, foundations, walls, abutments and other concrete structures.

Composition and Materials

*Fibre-Patch OV* is a one component, add water only, hydraulic cement based, polymer modified and silica-fume enhanced, fibre-reinforced mortar. The polymer modification allows air curing after 24 hours of wet cure and adds toughness to the material, when applied in thin sections. The pozzolan provides a high resistance to chloride and water penetration, high strength, bond and chemical resistance. The fibre reinforcement allows a crack free application of thin to thick sections. The proprietary additives allow an easy overhead application to 100 mm (4").

Limitations

Do not apply *Fibre-Patch OV* when the temperature is expected to go below 4°C (40°F) within 24 hours or when rain is imminent. Use Hot Weather concreting precautions when applying in temperatures exceeding 25°C (77°F) or under sunny and windy conditions. Minimum applied thickness is 6 mm (1/4 in).

Health and Safety

*Fibre-Patch OV* is non-toxic and non-flammable. Your skin might be sensitive to cement. We recommend use of rubber gloves. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water. Seek medical advice if irritation occurs. Harmful if digested. Keep product out of reach of children. FOR INDUSTRIAL USE ONLY. Consult MSDS for additional information.

Color

Dark Grey.

Packaging

*Fibre-Patch OV* is packaged in 22.7 kg (50 lb) bags.

Yield

*Fibre-Patch OV* yields 12.1 L (0.43 ft<sup>3</sup>) and covers approximately 2.0 m<sup>2</sup> @ 6 mm (20.5 ft<sup>2</sup> @ 1/4") thickness per bag.

Storage and Transportation

*Fibre-Patch OV* when stored on pallets in a dry, cool area, free from moisture and direct sunlight has a shelf-life of 12 months. Packaged 55 bags per pallet.

TECHNICAL DATA

Compressive Strength (ASTM C109)		
Time (days)	psi	MPa
3	3,500-4,000	24.13-27.58
7	4,200-4,700	28.96-32.41
28	5,000-5,500	34.48-37.93
Modulus of Rupture (ASTM C348, 28 days)	1,100 to 1,350	7.58-9.31
Slant Shear Strength (ASTM C882)	2,400-2650	16.55-18.27
Bond Strength with Concrete (Pull off test)	>200	>1.38
Rapid Chloride Permeability (AASHTO T 277)		980 Coulombs
Salt Scaling (MTO report, MI-67)		0.08 g/cm <sup>2</sup>
Freeze/Thaw Durability (ASTMC666, Proc. A)		less than 1% weight loss

INSTALLATION

Current Guide Specification and Application Instructions contain additional information specific to each application and must be followed. Consult Gemite's Technical Service before starting a project to ensure the correct surface preparation, crack treatment, application procedures and suitability for a given environment.

### Surface Preparation

Remove all loose and oil or grease contaminated concrete first. Sandblast, shotblast or high pressure waterblast (min. 8-10,000 psi) to remove form release agents, laitence, dirt and other bond inhibiting materials to achieve sound concrete with exposed fractured aggregate and a surface profile of 3 mm (1/8 in). Vertical edge of 6 mm (1/4 in), or more, must be created around the perimeter of the patch by saw cutting and chipping.

### Reinforcing Steel

Remove concrete behind the reinforcing steel to 25 mm (1 in) depth. Remove loose rust from the surface of the reinforcing steel and apply two coats of *Fibre-Prime* rustproofing.

### Mixing

Mix the contents of the 22.7 kg (50 lb) bag with 3.8 L (1.0 USG) of water, using a paddle or helix mortar mixer, or heavy duty drill (400 - 600 RPM) with a mixing paddle. Gradually add the dry material into water and mix until a smooth and lump free mix is obtained. Do not over mix. Adjust the water for trowelable consistency.

### Application

Thoroughly saturate with water to attain a saturated surface dry substrate. Trowel apply a thin layer of *Fibre-Patch OV*. When applying over very rough surface, fill-in the voids first. Do not build up until the first layer develops a sufficient set and bond to support the weight of the additional layer, usually 10 - 30 minutes. Float to obtain an even surface. Close with the steel trowel if necessary. Do not overwork the material. Do not feather edge.

### Curing

Wet cure for 24 hours and then air dry cure. Protect against rapid surface evaporation under hot, sunny and windy conditions by using a surface evaporation retarder or wetting the surface prior to the final set, which occurs in 15 - 20 minutes depending upon temperature. Curing compounds may be used.

### Clean Up

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

### AVAILABILITY AND COST

*Fibre-Patch OV* is available worldwide. Contact the manufacturer for the name of the nearest Representative/Distributor and pricing information.

### MAINTENANCE

None required.

### WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For complete details contact Gemite's Head Office.

### TECHNICAL SERVICE

For technical advice on suitability of *Fibre-Patch OV* for specific application, specification assistance and application advice, contact Technical Service: USA (888) 443-6483 or Canada (905) 672-2020.

### Short Specification

The concrete repair material shall be *Fibre-Patch OV*, fibre-reinforced material as manufactured by Gemite Products Inc. [USA 888-443-6483] [Canada 905-672-2020]. It shall be applied in accordance with manufacturer's current guide specifications and application instructions.

Consult Gemite Technical Service before starting a project, to ensure that the correct surface preparation and application procedures are followed, especially when applied to previously treated substrates.