

PRODUCT NAME

# Fibre-Patch® RM ST

## Pourable, Pumpable Repair Mortar

MANUFACTURER

Gemite® Products Inc.

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FEATURES

- non-shrink - volume compensated
- non-shrink - drying shrinkage compensated
- pumpable
- excellent bond strength
- crack resistant
- non-toxic
- highly impact resistant
- silica fume enhanced

PRODUCT DESCRIPTION

Basic Use

*Fibre-Patch RM ST* is used in all grouting applications and in concrete and masonry repair

Composition and materials

A cement based, fibre reinforced and microsilica enhanced composition. The material is fluid, pumpable and exhibits an excellent bond to clean, structurally sound concrete. Supplied as a concentrate consisting of reinforced fibres and dry chemical additives mixed on site with water, sand and cement and applied by pumping or pouring into formed cavities.

Limitations

Do not apply *Fibre-Patch RM ST* when the temperature is expected to be below 4°C (40°F) within 48 hours after application. When using *Fibre-Patch RM ST* in winter, enclose the area and provide electrical heaters to keep the temperature above 4°C (40°F). Follow "hot weather concreting" procedures when applying *Spray-Con WS Standard* at temperatures exceeding 25°C. The proper surface preparation is essential for successful *Fibre-Patch RM ST* application. Gemite Technical Service must be consulted before starting a project to ensure that the correct surface preparation and application procedures are followed.

Health and Safety

*Fibre-Patch RM ST* is non-toxic. Your skin might be sensitive to hydraulic cement or the liquid additive. 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.

Colors

Depending on type Portland cement used, *Fibre-Patch RM ST* has cement gray or light gray color.

Yield

*Fibre-Patch RM ST* when mixed with cement and sand yields 0.075 m<sup>3</sup> (2.65 ft<sup>3</sup>) per one bag mix. The Premix product, 22.7 kg (50 lbs) yields 13 L (0.43 ft<sup>3</sup>). For some applications the unit can be further extended with 9 mm (3/8 in) pea gravel. Contact Gemite Technical Service for further information.

Packaging

*Fibre-Patch RM ST* as a concentrate is supplied in 10 kg (22 lb) bags. *Fibre-Patch RM ST* is also supplied as complete premix containing sand and cement in 22.7 kg (50 lb) bags.

Storage and Transportation

*Fibre-Patch RM ST* when stored on pallets in a dry, cool area, has a shelf-life of 12 months. Packaged \_\_\_\_\_ per pallet.

TECHNICAL DATA

|   |                                       |
|---|---------------------------------------|
| Compressive Strength (ASTM C109 Modified) | 33.0 to 37.0 MPa (4,800 to 5,300 psi) |
| Modulus of Rupture (ASTM C348)            | 5.1 to 5.8 MPa (730 to 830 psi)       |
| Plastic Expansion (Volumetric)            | 3-4%                                  |
| Flow Test Time                            | 40 to 50 seconds                      |

INSTALLATION

Current Guide Specification and Application Instructions contain additional information specific to each application and must be followed.

Mixing

Mix Design

|                                      |                 |
|--------------------------------------|-----------------|
| <i>Fibre-Patch RM ST</i> Concentrate | 10 kg (22 lb)   |
| Portland Cement Type III             | 40 kg (88 lb)   |
| Mortar Sand                          | 100 kg (220 lb) |
| Water                                | 22 L (5.7 USG)  |

Use paddle or helix screw type mortar mixer. Place mixing water in the mixer, slowly add *Fibre-Patch RM ST* dry additives to the water and mix for one (1) minute. Add sand, cement and mix for one (1) minute. Add sand, cement and mix until free of lumps. Add reinforcing fibres and mix for not more than one (1) minute. Convey mixed material to point of placement in clean uncontaminated containers or use grouting pump. Portland Cement Type I can be also used ; some evaluation of the cement may be required. Please contact Gemite Products Inc. Technical Service.

### **Application**

Remove all loose concrete, clean off all grease, laitance, dust, dirt and efflorescence. Saturate the substrate with water, but do not leave puddles or surface water prior to the application of *Fibre-Patch RM ST*. Apply the grout by pumping or pouring. Apply *Fibre-Prime*, corrosion inhibiting coating, to protect the exposed reinforcement. Note: In some application hand patching or shotcrete may be a better alternative as a method of application. Contact Gemite Technical Service for information on *Fibre-Patch OV* patching material and *Spray-Con* shotcrete.

### **AVAILABILITY AND COST**

*Fibre-Patch RM ST Concentrate and Premix* are available worldwide. Contact Gemite Products Inc. for the name of the Representative/Distributor nearest you and pricing information. Use reasonable care in transportation. Will last for one year when stored in dry areas. Protect from inclement weather when storing on site.

### **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 the suitability of *Fibre-Patch RM ST* for a specific application, specification assistance and application advice, contact Gemite Technical Service: USA 888-443-6483 or Canada 905-672-2020.

### **Short Specification**

The grout be *Fibre-Patch RM ST*, fibre reinforced and silica fume enhanced grout, 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., or a local Representative for specification assistance and application instructions. The suitability of the surface preparation method must be checked with Gemite Technical Service at the time of the specification preparation and before application for each project.