

FIBPOXY (VG)

Moisture insensitive Repair Mortar

DESCRIPTION

Fibpoxy VG is a 100% reactive, 3 component epoxy mortar system designed for vertical and overhead applications. It is a fast curing system specially blended to produce a non-sag material with good workability. Fibpoxy VG provides excellent chemical and abrasion resistance. It can be used to patch or resurface dry or damp surfaces. Fibpoxy VG is the ideal material for high strength repairs of concrete and masonry surfaces that are subjected to chemical attack. Fibpoxy VG moisture insensitive epoxy mortar can be used under water also and for that before putting inside the water allow the mortar to have its gel time.

AREAS OF APPLICATION

- Concrete subjected to chemical attack.
- Sewer manholes.
- Concrete tanks.
- Secondary containment.
- Beams and columns.
- Marine structures.
- Wall repairs.

FEATURES & BENEFITS

- Moisture insensitive for bond to dry or damp surface.
- Protects concrete substrates against chemical attack, including hydrogen sulphide.
- Non-sag for vertical and overhead applications.
- Long lasting, high strength material that provides a permanent, impermeable barrier.
- Designed for use a temperature of 4oC and above.
- Build up to 25mm in one application.

TECHNICAL SPECIFICATIONS

The following were developed under laboratory conditions.

COMPRESSIVE STRENGTH - ASTM C -109 2"

(50 mm) cubes

1 day	:	48 MPa
3 days	:	62 MPa
7 days	:	69 Mpa
28 days	:	76 MPa

BOND STRENGTH - ASTM C 882

7days	:	116 Mpa
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WATER ABSORPTION - ASTM D -570 : 0.19%

WORKING TIME OVER CONCRETE

24oC	:	50 minutes
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CHEMICAL RESISTANCE - ASTM D - 543

Hydrogen Sulphide	:	Not affected
Sodium Chloride	:	Not affected
Sodium Hydroxide (50%)	:	Not affected
Hydrochloric Acid (10%)	:	Not affected
Sulfuric Acid (10%)	:	Not affected
Mineral Oil	:	Not affected

APPLICATION METHODOLOGY

PREPARATION

New concrete must be a minimum of 28 days old and possess an open, porous and textured surface with all curing compounds and sealers removed. Old concrete must be clean and well textured. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a pressure washer or sand blaster, which will give a surface profile and expose the coarse aggregate of the concrete. The final step in cleaning should be the complete removal of all residues with a vacuum cleaner or pressure washing.

Acid etching is acceptable only when mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry.

NOTE: Even with proper procedures, an acid etched surface may not provide as strong a bond as mechanical preparation procedures.

MIXING

Mix parts A and B (resin & hardener) for 2 minutes using a drill and mixing prop. For ease of mixing add the part B to the part A (not the reverse). The epoxy must be well mixed to ensure proper chemical reaction. Add the aggregate into the epoxy after the part A and Part B have been premixed together. Place immediately.

APPLICATION

Trowel material onto the prepared substrate. To avoid sagging on vertical or overhead application, do not apply at thickness greater than 10 mm at one time.

CURING

No curing membranes or materials are required, Fibpoxy VG is self curing. Keep application area above 4°C for a minimum of 7 days after installation.

CLEAN UP

Clean tools and equipment with solvent such as Fibrex Solvent, Xylene, Toluene or MEK. Do not allow the epoxy to harden on equipment.

PRECAUTIONS

- Bring material as close to room temperature as possible.
- Store in room temperature environment 24 hours prior to use. Do not heat with open flame.
- Epoxy components may cause irritation. Avoid contact with eye and skin.
- Always wear protective clothing, rubber gloves and eye protection when using the product.

STORAGE

9-12 month from date of manufacture, in original packing. Store in a cool dry place.

PACKAGING / YIELD

Fibpoxy VG is packaged as a 3 component kit with packing of 19kg & Project standard

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