

PRODUCT DESCRIPTION: FIBPOXY (IR) is a 100% reactive, two component material designed as a moisture insensitive adhesive for numerous injection and sealing needs. This high modulus material is formulated as a super low viscosity for each of use is penetration deep into thin cracks.

AREAS OF APPLICATION

- Permanent bonding of structural damage
- Parking structures
- Bridge structures
- Marine structures
- Retaining walls
- Earthquake damage
- Vertical and overhead applications

ADVANTAGE

- Excellent adhesive for pressure injection of fine cracks
- Moisture insensitive for bond on dry or damp surfaces
- Provides a tough, weather resistant seal for porous concrete
- Penetrates deep into concrete cracks and fissures

APPLICATION METHODOLOGY

SURFACE PREPARATION

Cement bound surfaces must be dry, firm, offer good traction, free from loose particles, dust, dirt and additionally free of oil, grease and other impurities which can adversely affect uniform adhesion. If considered necessary, the surface should be, flame scaled, milled or grind. Iron and steel must be free of rust and scale and should be free from oil, dust and grease and other dirt particles. The best method of preparation is to flame scale or grind.

MIXING

All materials should be in the proper temperature range of 16°C - 32°C. Mix parts A and B (resin & hardener) for 2 minutes using 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.

APPLYING AND LAYING

• CRACK INJECTION

FIBPOXY (IR) can be gravity fed or pressure injected into horizontal cracks. Vertical and overhead cracks must be pressure injected. Insert one way valves or ports into drill hole at the face of the crack. Areas around the entry port and the crack between ports should be sealed. Inject the neat material with an epoxy injection machine or other mechanical means. Make sure that injection equipment is properly set for a 2 to 1 mixing ratio (Part A to Part B) by weight.

• CRACK HEALING

After mixing, pour or squeegee epoxy into crack and allow to seep in. Continue to apply material until crack is full.

CLEAN UP

- Clean all tools immediately after use with Fibrex Paint Remover. Do not allow material to harden.

TECHNICAL SPECIFICATIONS

Density of A part(Liquid)	1.123g/cm ³
Density of B part(Liquid)	0.971g/cm ³
Mix Density	1.071g/cm ³
Pot Life(300 gms @20.7°C)	55mins
Mix Ratio (Part A to Part B)	(2:1)
Compressive Strength	74 MPa
Ultimate Tensile Strength (ASTMD638)	62 MPa
Elongation at break (ASTMD638)	3.5%
Shear Bond strength (ASTMC882)	26 MPa
Tensile modulus of elasticity (ASTMD638)	3172 MPa
Shore D Hardness (ASTMD2240)	85
Flexural Strength (ASTMD790)	97MPa

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

CURING

Proper curing procedures are important to ensure the durability and quality of the repair or overlayment. To prevent surface cracking, a moist cure should be maintained for 24 hours, upto 3 days.

PACKAGING

FIBPOXY IR (A+B : 5 KG PACK)

Supply

2 Packs Set : 10 KG (A Part : 2 Nos, B Part : 2 Nos)

STORAGE

Store the material at temperatures between + 10° C and + 35° C in originally sealed packages, the material can be stored for twelve months. But before opening the drums, be assured that the temperature of the materials has the ambient temperature to avoid condensation. Open containers of material should be used quickly to avoid moisture contamination. If a container needs to be resealed, it should be blanketed with nitrogen to minimize water exposure.

PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL / SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

DISCLAIMER:

Fibrex Construction Chemicals pvt. Ltd. products though are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Fibrex Construction Chemicals wishes to clarify that any advice, recommendation, specification or information is accurate and correct, though it cannot, at any time assume any liability either directly or indirectly arising from the use of its products. This is because it has no direct or constant control over where or how its products are applied, and whether or not in accordance with the advice specification, recommendation or information given by it.

FIBREX OTHER PRODUCTS – WE DO

