

## PRODUCT DESCRIPTION:

Fibpoxy®-SB 121 is a solvent-free, thixotropic, two part structural adhesive and repair mortar, based on epoxy resins with high abrasion resistant fillers.

## AREAS OF APPLICATION

As a structural adhesive for:

- Concrete elements
- Steel iron surfaces
- Bonding on most of the surfaces
- Corners and edges
- Hole and void filling
- For hydraulic structures

## ADVANTAGE

Fibpoxy SB 121 has the following advantages:

- Easy to mix and apply
- Suitable for dry and damp concrete surface
- Very good adhesion to most construction material
- High strength adhesive
- Thixotropic : non-sag and suitable for vertical and overhead application
- Solvent free
- Different colored component (for mixing control)
- No Primer needed (recommended)
- High initial and ultimate strength
- Very high abrasion resistance
- Good chemicals resistance
- Impermeable to liquids and water vapor

## APPLICATION METHODOLOGY

### SURFACE PREPARATION

Concrete, mortar, stone, bricks: Substrates must be sound, dry, clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and all loose particles must be removed to achieve a laitance and contaminant free, open textured surface.

Steel: Must be cleaned and prepared thoroughly to an acceptable quality i.e. by blast cleaning and vacuum. Avoid dew point conditions.

### Substrate Quality

It is recommended that mortar and concrete must be older than 28 days. Verify the substrate strength (concrete, masonry, natural stone). The substrate surface (all types) must be clean, dry and free from contaminants such as dirt, oil, grease, existing surface treatments and coatings etc. Steel substrates must be de-rusted similar to Sa 2.5. The substrate must be sound and all loose particles must be removed.

### Mixing

Mix parts A+B together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (max. 600 rpm) until the material becomes smooth in consistency and a uniform grey / black color. Avoid aeration while mixing. Mix only that quantity which can be used within its pot life.

## Application Method /Tools

When using a thin layer adhesive, apply the mixed adhesive to the prepared surface with a spatula, trowel, notched trowel, (or with hands protected by gloves). When applying as a repair mortar use some formwork. Once hardened check the adhesion by tapping with a hammer. When using multiple units, one after the other. Do not mix the following unit until the Previous one has been used in order to avoid a reduction in handling time.

## CLEAN UP

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

## TECHNICAL SPECIFICATIONS

Color & Appearance of System (Part A+b)	Grey Paste
Chemical Base	Epoxy
<b>Mixing Ratio</b>	Part A : Part B = 2 : 1 (by weight)
Mixed Density	1.89 ± 0.05 kg/l at 30 °C
Potlife(According to FIP 5.1 and 5.2)	≥40 mins (100 g mass +30°C )
Sag Flow	On vertical surfaces it is non-sag up to 8 mm thickness.
Layer Thickness	20 mm max.
Change of Volume	Shrinkage / Creep: Hardens without shrinkage
<b>Compressive Strength</b> (According to ASTM C-579)	
Curing time at +35°C	Strength
1 day	>40 N/mm <sup>2</sup>
3 days	>50 N/mm <sup>2</sup>
7 days	70 - 80 N/mm <sup>2</sup>
<b>Bond Strength</b> (According to ASTM C 882)	
Curing time at +35°C	Strength
14 days on Concrete dry	7-9 N/mm <sup>2</sup>
<b>Flexural Strength</b> (According to ASTM C-579)	
Curing time at +35°C	Strength
1 day	10 N/mm <sup>2</sup>
3 days	18 N/mm <sup>2</sup>
7 days	25 N/mm <sup>2</sup>
<b>Tensile Strength</b> (According to ASTM C-579)	
Curing time at +35°C	Strength
3 day	5-8 N/mm <sup>2</sup>
7 days	8-10 N/mm <sup>2</sup>
14 days	10-15 N/mm <sup>2</sup>

# FIBPOXY SB 121

2-part thixotropic epoxy structural element with high abrasive resistant fillers

Product # 114.118  
Version no: 14.03.24

# Tech Data

<b>Taber abrasion</b>	Approx. 55 gms (ASTM D 4060)
<b>Hydraulic Coefficient of Friction</b>	Very low
<b>Approval / Standards</b>	Conforms to ASTM C 881-78, Type I, Grade 3, Class B+C.
<b>Coverage</b>	1.4kg/m <sup>2</sup> /mm

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.

## LIMITATIONS

- Do not apply Fibpoxy SB 121 on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %. Consult fibrex before using Fibpoxy SB 121 in those areas.
- Do not apply Fibpoxy SB 121 to asphalt, weak or infirm concrete, unmodified sand-cement screeds.

## Please contact FIBREX for installation of floor coating over

- Oil / Fat rigged floors
- Floors with moisture content over 4 %
- Floors with rising moisture problem
- Asphalt based surface (interior)
- Floors with a pull off strength less than 1.5 N / mm<sup>2</sup>

## PACKAGING

Fibpoxy SB 121 (A+B : 7 KG PACK)

### Supply

2 Packs Set : 14 KG (A Part : 2 Nos, B Part : 2 Nos)

## STORAGE

Fibpoxy SB 121 Store 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/bucket, 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.

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.

## 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.

# FIBPOXY SB 121

2-part thixotropic epoxy structural element with high abrasive resistant fillers

Product # 114.118  
Version no: 14.03.24

# Tech Data

## 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 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

