

PRODUCT DESCRIPTION: Fibbond 253 is a 100 % reactive, 2 – component material designed as a moisture insensitive adhesive and binder for numerous application needs. Fibbond 253 provides normal working time when bonding dry or damp concrete at temperature above 4°C.

AREAS OF APPLICATION

- Priming
- Sealing
- Bonding Toppings
- General Adhesive
- Floors and Joints
- Repairs Material
- Non-Sag Material
- At temperature higher than 32°C, the medium viscosity formulation may be more suitable for these applications. Gel times will be extremely short.
- At lower temperatures below 16°C the low viscosity formulation may be more suitable for these applications.

ADVANTAGE

More flexible than high modulus systems to take additional movement. Low viscosity facilitates penetration into cracks or filling of cold joints.

- Excellent adhesive for bonding together concrete, steel, ceramic or wood materials.
- Bonds fresh concrete toppings to harden concrete slabs.
- Protects concrete substances against chemical attack including most acids and caustics.
- May be extended with sand or aggregate for thick applications and mortar repairs.
- Designed for use at temperatures of 4°C and above.

APPLICATION METHODOLOGY

SURFACE PREPARATION

New concrete must be minimum 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 scabblor, bushhammer, scarifier or similar equipment, which will give commensurate surface profile for the application. Coating applications should have a rough appearance while topping applications should have the surface of the concrete, profiled to expose the large 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 dry completely.

MIXING

All materials should be in the proper temperature range of 16°C – 32°C. Mix part 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. If aggregates are to be added, the aggregate is mixed into the epoxy after the Part A and Part B has been premixed together. Place immediately.

APPLICATION

(Priming, Bonding, Sealing or Coating) Apply material by roller, trowel or putty blade, squeegee. Do not allow the material to puddle. Extremely porous surfaces may require a second coat for proper ultimate performance.

PRIMING & BONDING

If using Fibbond 253 as a bonding agent for a cementitious topping, place the topping on the Fibbond 253 while the epoxy is still wet. If the epoxy has become "tacky" to the point where it is no longer a sticky liquid, a fresh coat of Fibbond 253 must be applied before the topping is placed.

SEALING & COATING

If a second coat of Fibbond 253 is to be placed on the concrete, the first coat should be slightly tacky (4 -10 hours old) when the second coat is applied. A slip resistant surface can be created by broadcasting silica sand (20 - 50 mesh) into the coating and then back casting to embed the sand.

CLEAN UP

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

TECHNICAL SPECIFICATIONS

Typical properties of all Fibbond 253 Systems when tested @ 27°C under laboratory conditions.

Appearance	
A part	Epoxy Resin liquid
B part	Epoxy hardner liquid
Mixing Ratio (A:B)	2:1 (by weight)
Gel Time ASTM C 881 -90	30 min
Bond Strength ASTM C 882 @ 14 hours	>7.6 MPa
Bond Strength ASTM C 882 @48 hours	>15.2 MPa
Water absorption ASTM D 570	< 0.2 %

Durometer ASTM D 2240 "D Scale"	> 70 - 75
Tensile Strength ASTM D 638	> 34.5 MPa
Compressive Modulus of Elasticity ASTM D 638	2069 MPa
Tensile Elongation ASTM D 638	9.0 %
Compressive Strength ASTM C 695	> 66.4 MPa
Coverage	
Use as primer	200 - 250 gms/m ²
Use as bonding agent	250 - 300 gms/m ²

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 Fibbond 253 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 Fibbond 253 in those areas.
- Do not apply Fibbond 253 to asphalt, weak or infirm concrete, unmodified sand-cement screeds, PVC tiles or sheets, or substrates known to move substantially.
- Do not apply Fibbond 253 over treated expansion joints.

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 floor (interior)
- Floors with a pull off strength less than 1.5 N / mm²

PACKAGING

FIBBOND 253 (A+B-14 KG SET)
2 Packs of 7 KG

STORAGE

Fibbond 253 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. 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 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

