

PRODUCT DESCRIPTION: FIBBOND 253 HV is a solvent free – thixotropic two part epoxy based adhesive for bonding FIBFLEX EP TAPE to different substrates.

AREAS OF APPLICATION

Use as adhesive where FIBFLEX EP-TAPE apply:

- airports
- tunnels
- facades
- power plants
- roofs and terraces
- swimming pools
- interior applications
- shopping / office buildings
- water treatment plants
- bridges and flyovers
- balconies and parapet joints
- car parks / basements
- wet rooms / bathrooms
- Concrete construction & control joints
- Crack filler repair for old floors
- Industrial and commercial floors

ADVANTAGE

- Easy to mix and apply
- Suitable for both dry and damp concrete surfaces
- Excellent adhesion too many materials
- Solvent free
- Performs well within a wide temperature range
- Completely weather and water resistant
- Fast curing
- Root resistant
- Good resistance to many chemicals
- Thixotropic – suitable for overhead and vertical applications
- No primer needed
- High mechanical resistance

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 scabber, bush hammer, shotblast or scarifier or similar equipment, which will give commensurate surface profile for the application. Coating applications should have a light sandblast 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

Apply mixed material by roller, putty blade in a uniform fashion. Do not allow the material to puddle. Extremely porous surfaces may require a second coat for proper ultimate performance.

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 HV Systems when tested @ 27° C under laboratory conditions.

Apparance(A+B)	Grey Liquid
Mixing Ratio (A:B)	2.86:1 (by weight)
Gel Time ASTM C 881 -90	30 min
Service temperature	-30°C to +50°C
System	Modified, solvent free, fillerised 2-part epoxy resin
Bond Strength	
Concrete (dry)	> 1.5 N/mm ² (failure in concrete)
Concrete (mat / damp)	> 1.5 N/mm ² (failure in concrete)
Compressive Strength	
1 day	45 N/mm ²
7 days	48 N/mm ²
Test approval standards surface preparation	Central Food Technology Research Institute (CFTRI), Mysore Conforms to: IS 9845 for food grade (compatibility with drinking water)

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.

Chemical Resistant

Long term to:

Water, lime water, cement water, seawater, salt solutions, domestic sewage, bitumen, bitumen emulsion coatings etc.

TEMPORARY TO

Light fuel oil, diesel, diluted alkali and mineral acids, ethanol, methanol, petrol etc. These chemical resistance indications may be used to determine the suitability of the sealing system. Regarding specific short term chemical resistance, please consult our technical service departments.

LIMITATIONS

- Do not apply FIBBOND 253 HV 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 HV in those areas.
- Do not apply FIBBOND 253 HV 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 HV 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 HV (A+B : 7 KG PACK)

1 Pack Cover 5 rmt @1.4 kg/rmt

Supply

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

STORAGE

Fibbond 253 HV 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, 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.

FIBBOND 253 HV

2 Part Epoxy Adhesives For Fibrex EP Tape System

Product # 114.117
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 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 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

