

PRODUCT DESCRIPTION: FIBMICRO 60 is a versatile, one part, patching and repair compound for repair project of all types. Requiring only the addition of water, FIBMICRO 60 is a high strength material, which is easy to use with an extended working time for ease of placement. It is similar in appearance to concrete and is suitable for use as a topping, patching mortar or repair material on horizontal surfaces.

AREAS OF APPLICATION

- Parking decks
- Floor toppings
- Joint repairs
- Equipment bases
- Pedestals
- Pavements

ADVANTAGE

- Can be used as a pumpable or pourable repair micro concrete where access is restricted
- Highly fluid to allow for placement without vibration.
- Compensates for shrinkage by expansion.
- Premixed, ready to use.
- Long working time
- High strengths with low permeability
- Chloride free

APPLICATION METHODOLOGY

SURFACE PREPARATION

New concrete must be a minimum of 28 days old if an epoxy adhesive will be used to the topping. If a slurry bond coat is used, the concrete must be a minimum of 3 days old. The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scrubber, brush hammer, shot blast or scarifier which will give a surface profile of a minimum 1/8" (# mm) and expose the large aggregate of the concrete. The final step is cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing. All concrete must possess an open surface texture with all curing compounds and sealers removed. Several hours prior to placing, the concrete substrates should be saturated with clean water. Immediately prior to placing, any free water should be removed. Alternatively, use a bonding system.

MIXING

Fibmicro 60 requires no pre-blending and should be used directly from the bag. Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 15°C- 32°C. Add the appropriate amount of water for the batch size and then add the dry product. Mix a minimum of three minutes. If pea gravel is to be added, do so now and mix an additional 2-3 minutes. The mixed product should be transported to the repair area and placed immediately.

APPLYING AND LAYING

BONDING COAT

After the surface has been prepared, prime all area with either a bonding coat of FIBMICRO 60 with FIBCRETE SBR Latex or an epoxy bonding agent. The primer bonding agent must be ordered separately.

SLURRY COAT

Mix FIBMICRO 60 as instructed but add an additional 0.95 litre of FIBCRETE SBR Latex per unit of the mix. Broom the slurry coat on to the prepared and pre-dampened concrete. Apply the FIBMICRO 60 topping before the slurry coat has dried.

JOINTS AND EDGES

Edges should be saw cut to ¼ " (6 mm) deeper than the topping thickness and repair to provide a locked in reinforced edge. Moving joints as in the case of expansion joints should be brought up through the repair by saw cutting or with the use of divider strip.

EXPOSED REINFORCEMENT STEEL

Exposed rebar may be treated with an anti-corrosion coating such as FIBZINC PRIMER. Remove all loose rust and scaling, preferably by sandblasting to white metal prior to coating the rebar.

SECTION REPAIR

For repair sections generally deeper than 100 mm it may be necessary to mix the FIBMICRO 60 with properly graded 5 mm to 12 mm silt free aggregate to minimise temperature rise. The quantity of aggregate required may vary depending on the nature and configuration of the repair location. It should be a max. of 8 kgs pea gravel per bag of FIBMICRO 60.

PLACEMENT

Discharge material from mixer and place. For patching with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. Finish to desired texture. On large floor areas, used screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel. If placed by pump, standard concrete pumping practice should be followed. The pump and pipeline must be primed with cement slurry. Pumping should be commenced immediately after priming. If poured in the form work, avoid air entrapment by pouring from one side only.

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Finish the repair material to the desired texture. Do not add additional water to the surface during the finishing operation.

CURING & SEALING

To prevent surface cracking, cure the floor with a high solids curing compound. In hot, windy or direct sunlight situations, re-wet the surface after the curing compound has dried and cover with polyethylene for a minimum of three days. If curing compound is not desired, wet cure for a minimum of three days.

YIELD

FIBMICRO 60 is packaged in 25 kg bags. When mixed with 3.75 litres of water, the unit yields 0.013 m³ per bag. One unit of FIBMICRO 60 will cover approximately 0.42 m² when placed at an average depth of 1" (23 mm). A unit of FIBMICRO 60 may be extended with 8 kg of 3/8" (9.5mm) pea gravel which will yield 0.015 m³ FIBMICRO 60 extended with pea gravel must be used for overlay placements that exceed 1.5" (38.1 mm) in depth.

CLEAN UP

Clean all tools immediately after use with water. Do not allow material to harden. Any hardened material will need to be removed mechanically.

TECHNICAL SPECIFICATIONS

Appearance	Grey powder
Drying Time	24 hours
COMPRESSIVE STRENGTH ASTM C -109 2" (50 mm) cubes	
Age	Strength
1 day	34 MPa
3 days	45 MPa
7 days	54 MPa
28 days	65 MPa
FLEXURAL STRENGTH	
7 days	7 MPa
28 days	8 MPa
FLOW	
Initial	254 mm
30 minutes	241 mm
1 hour	229 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.

PACKAGING

FIBMICRO 60 is packaged in 25 kg bags.

STORAGE

Store the material at temperatures between + 10° C and + 45° C in originally sealed packages, the material can be stored for 6 months.

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. 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

FIBMICRO 60 is formerly known as Fibmicrocrete. 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.

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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

