



MULTICON[®] EP

Epoxy Screed for Repair of Concrete

PRODUCT DESCRIPTION:

MULTICON[®] EP is specially prepared epoxy resins based chemical used for preparation of repair mortar, or concrete. Mixes on MULTICON EP produce durable, high compressive strength and anticorrosive patching mortar or concrete. It has ability to penetrate into the recess of concrete members and behind the reinforcement of the member under repair.

BENEFITS:

- ✓ Two-component or three-component system only need on site mixing of A and B component for two-component system and A, B and C for Three-component system.
- ✓ High early and ultimate strength.
- ✓ Facilitate fast repair.
- ✓ Good bond with parent concrete.
- ✓ Non - shrink.
- ✓ Chloride and iron free.
- ✓ Impermeable

USES:

APPLICATION

Damaged structures often need repair with high strength concrete. Conventional concrete used in the jacketing shutters often give to honey combing. It also has poor adhesion to old structures and may not be free flowing required for filling up recess of affected members. MULTICON[®] EP has excellent free flowing properties and absolute waterproof. It can be used to repair damaged concrete columns, beams, honey-combed structures etc. Other uses are in industrial floor repairs bridges, roads, drive ways etc.

MULTICON[®] EP has excellent adhesion to the substrate with primer coat and facilitates repair work to be speeded up cutting down time. MULTICON[®] EP is specially suitable for use in industrial concrete floor repairs and the floor can be opened to traffic after 24 hours.

MULTICON[®] EP eliminate shrinkage associated with cementitious materials and thus ensuring stress free surface.

LOCATION

) Interior, top layer required

SUBSTRATE

) Horizontal concrete floors, Beam, Column and slabs





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TECHNICAL DATA:

Description	Results
Product	Epoxy based micro concrete
Colour	Grey
Pot Life	30 minutes
Compressive strength, N/mm ²	70
Coverage	2 Kg/m ² /mm
Packaging	25 kg
Storage	Store above 5 °C and below 30 °C
Shelf Life	6 months in above conditions

APPLICATION DATA:

PREPARATION:

1. Ensure that floors are structurally sound and fully cured a minimum of 28 days.
2. Repair concrete and install joint sealants and fillers as necessary. Use patching materials as appropriate.
3. Mechanical surface profiling is the preferred floor preparation method for both new and existing floors. It is the only acceptable preparation method where warranties are issued. Acid etching is not recommended. Mechanically profile the floor to medium-grit sandpaper texture. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions.
4. Measure the moisture vapor transmission rate (MVT) after shotblasting by conducting a calcium chloride test in accordance with ASTM F 1869.
5. If the test shows that a rate of 3 lb/1000 ft² in 24 hours is exceeded, then Vapourgard[®] EP Concrete Floor Primer is needed prior to the use of MULTICON[®] EP.
6. One coat of Vapourgard[®] EP Concrete Primer will reduce MVT by half.

MIXING:

1. This product has a limited pot life; complete all preparations before starting the mixing sequence.
2. It is very important to properly mix the components of this product together in the exact manner and sequence specified in the following instructions in order to form a stable emulsion and ensure proper film formation. Before combining Parts
3. A and B, premix each separately. When mixing, wear protective gloves and goggles to avoid injury from splashes.





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4. To mix Multicon[®] EP, pour the entire contents of Part B (Hardener) from the pail and insert into Part A in the bottom of the pail. Scrape out remaining material in the liner, being careful not to spill any. The Part A (Resin) container is oversized to allow for easy mixing.
5. Add above material to either C component or graded quartz sand in 1: 4 proportion. Use this material as per requirement.
6. DO NOT MIX BY HAND. Mix with a Jiffy mixer blade and an electric drill at very low speed for 3 – 4 minutes. Scrape sides of the container several times to ensure complete mixing. Keep the mixer blades immersed in the material to avoid introducing air bubbles.
7. Use Multicon[®] EP within its pot life.

PLACING:

1. Surface and atmospheric temperature must be between 16 – 27°C during the application of Multicon[®] EP.
2. Place the material in the surface need repairing. Level the same with metal trowel.
3. Install as evenly as possible, and avoid leaving excessive build-up in rougher areas.

CLEANING:

All tools should be cleaned with suitable solvent, such as MULTIKLEEN or hot water immediately after use.

STORAGE:

Store in dry, frost-free conditions at moderate temperatures not greater than 25 °c.

IMPORTANT POINTS:

1. In case of floor repair, it should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.
2. Do not thin with solvents unless advised to do so by Multichem.
3. Prepare substrate according to "Surface Preparation" portion of this document.
4. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab.
5. Always use protective clothing, gloves and goggles during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
6. For industrial/commercial use. Products should be installed by trained personnel only.





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WARRANTY

Multichem warrants Multicon[®] EP to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of Multicon[®] EP.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of Multicon[®] EP.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.

