

MIXBUILD EP

Epoxy multi-repair system , Hi-strength and non-slump

Mixbuild EP is an epoxy resin adhesive and repairing compound that is designed for use where non-slump characteristics are required. The system consistency makes the product Ideal for minor concrete repairs and re-profiling. It is thixotropic but easily workable compound that cures to give high mechanical properties and offers resistance to oil, grease, petroleum, salts, many acids and alkalis and most commonly met corrosive media. Mixbuild EP is a two-pack product containing fine aggregates that will not shrink on curing; the product is rapid curing, and does not shrink on curing.

Appropriation

Mixbuild EP may be used for a variety of bonding, repairing, bedding, gap filling and overhead applications, typically:

- Repairing honeycombed concrete
- Cracked plaster surface, mapping
- Bedding bridge bearing
- Fixing of brick slips
- Gap filling adhesive
- Filling bolt pockets
- Bedding and grouting tiles
- Repairs & grouting to GRC panels
- Overhead repairs

Characteristics

- High strength
- Versatile
- Tenacious bond
- Non slump, rapid cure
- Non shrink
- Minimal waste
- Excellent chemical resistance
- High mechanical strength
- High impact resistance
- Strong adhesion

Technical Data & Properties

Mixbuild EP complies with the following standards:

- ASTM C 881: Type 1, Grade 3 class B & C
- BS 6319 - Part 4
- BS 5080 - Part 1
- Tensile strength: $> 17\text{N/mm}^2$
- Compressive strength: $>56\text{N/mm}^2$
- Flexural strength: $>35\text{N/mm}^2$
- Density: 1800 kg / m^3
- Bond strength: Greater than concrete
- Flash point: $200\text{ }^\circ\text{C}$
- Pot life at $30\text{ }^\circ\text{C}$: 90 minutes grey and 60 minutes white
- Full cure: 4 days at $30\text{ }^\circ\text{C}$
- Colors: Off white (Part A-base) & Cement grey (Part B-reactor)
- Shelf life: Up to 12 months when stored under $20\text{ }^\circ\text{C}$

Product Management

Surface preparation: Make sure surfaces are clean, dry and free from dust, dirt, oil, grease, laitance etc.

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Mixing: Mixbuild EP may be easily mixed by trowel although for multiple packs a slow speed drill and mixing paddle can be used. For less than full units take three parts of the base (part A) with two parts of the reactor (part B) and mix thoroughly in a pliable polyethylene beaker or similar

Part mixing of units is only recommended for non-adhesive applications. The technical properties shown above will only be achieved with the exact mixing ratio, as supplied. To avoid waste, only mix sufficient material for the work in hand

Application: Mixbuild EP by knife or trowel will aid application. Where deep recesses are to be filled, apply Mixbuild EP in layers of 25 mm to 40 mm to required depth

Coverage: A 1kg unit will cover an area of 0.5m² at 1mm thickness. Consumption will vary according to the texture and profile of the surface being repaired on adhered to

Cleaning: Clean tools and equipment immediately after use with a suitable solvent. Once cured Mixbuild EP can only be removed by mechanical methods

Packing & Storage

Mixbuild EP is available in 0.5kg and 1kg kit (two parts). Mixbuild EP should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

Health & Safety

Mixbuild EP contains no hazardous substances. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any contact to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each Fab product

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Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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