

MONOMIX HD



USES

High Strength structural repair mortar with good abrasion resistance for trafficked areas.

THICKNESS

Minimum 5mm, maximum 80mm in a single layer.

TECHNIQUES

Hand, float or trowel.

PREPARATION



1. Cut back to sound concrete, minimum of 25mm behind reinforcement and 50mm beyond visible corrosion.
2. Saw or disc cut the perimeter of the repair to a minimum depth of 10mm.
3. Roughen smooth surfaces.
4. Remove all loose material, dust, surface laitance, mould release agent and any other form of contamination.
5. Clean reinforcement to bright metal.
6. Brush apply **STEEL REINFORCEMENT PROTECTOR 841** to the reinforcement in two 1mm coats. Allow the first coat to stabilise before applying the second coat.
7. Thoroughly soak the substrate with clean water until fully saturated. Remove excess water.
8. No primer required except when treating highly porous concrete.

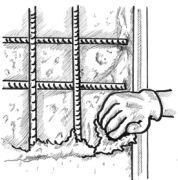
MIXING



2-3 mins

1. Pour 2.3 to 2.7 litres of clean water into mixing vessel and add a bag of powder. Always add powder to water.
2. Typically use 2.5 litres per bag for high build applications.
3. Part bags can be mixed using a ratio of 7 to 8 volumes of powder to 1 volume of water.
4. Mix using slow speed drill and EPI paddle with a maximum speed of 750rpm, or in a forced action mixer. Mix for 2 to 3 minutes to an even consistency.

APPLICATION



1. Work an initial 5mm to 10mm of **MONOMIX HD** into the substrate and behind any reinforcement by gloved hand, float or trowel ensuring it is well adhered.
2. Build up to 80mm in a single layer. Formwork can be used for deeper repairs.
3. Finish with a dampened steel float working towards the edge of the repair.
4. Once stabilised, remove any trowel marks using a damp sponge.
5. On floors use a stiff brush to produce a slip resistant finish.
6. For multi layer application, use the fingers of a gloved hand to stipple the surface of the first layer. Allow to stabilise but do not leave to fully cure before applying a subsequent layer.
7. Immediately spray apply **CURING MEMBRANE WB** to aid curing.



WORKING LIFE

Approx. 60 minutes at 20°C.

YIELD

13.1 litres per 25kg bag at 2.5 litres water addition.

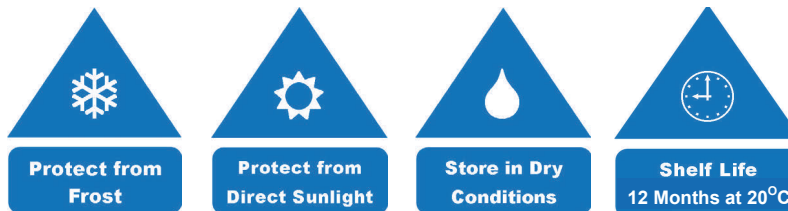
COVERAGE (Typical)

Thickness	Coverage per 25kg Bag (m ²)
10 mm	1.31
25 mm	0.52
50 mm	0.26
80 mm	0.16

CLEANING

Clean tools with water immediately after use.

STORAGE AND SHELF LIFE



HEALTH AND SAFETY

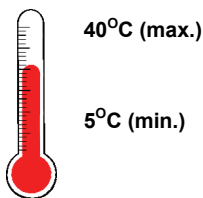
- R36/37/38: Irritating to eyes, respiratory system and skin.
- R41: Risk of serious damage to eyes.
- See Material Safety Data Sheet (MSDS) for full information.

PPE



TOP TIPS

1. **DO NOT WET OUT OR PRIME** between layers.
2. If mortar thickens, remix but **DO NOT ADD EXTRA WATER**.
3. **DO NOT OVER TROWEL**. If the mortar begins to slump, allow to stabilise and refinish.
4. When finishing, trowel from centre out towards the perimeter working into the edges of the repair.
5. For large areas of repair consider using **MONOMIX WS** applied with wet spray techniques.
6. Cold Weather Working (see separate Guide)
 - ≥3°C on a rising thermometer.
 - ≥5°C on a falling thermometer.
7. Hot Weather Working (see separate Guide)
 - Store material in cool conditions to maximise working life.
 - Shade applied material from strong sunlight.
 - Spray apply a second coat of **CURING MEMBRANE WB**.
 - If possible, avoid extreme temperatures by working at night.



APPLICATION RANGE



Flexcrete Technologies Limited
Tomlinson Road
Leyland
Lancashire
PR25 2DY
United Kingdom
Tel: +44 (0) 845 260 7005
Fax: +44 (0) 845 260 7006
Email: info@flexcrete.com
Web: www.flexcrete.com



FM 41091
EMS 597350
OHS 597351

Quality
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The information herein is correct to the best of our knowledge, but it does not necessarily refer to the particular requirements of the customer. If the customer has any particular requirements it should make them known in writing to Flexcrete Technologies Limited, and obtain further advice accordingly.