

# MONOMIX WS



## USES

Wet spray applied low density waterproof mortar for structural repair of concrete.

## THICKNESS

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

## TECHNIQUES

Wet spray. See Spray Equipment Application Guide.

## 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 3.3 to 3.7 litres of clean water into mixing vessel and add a bag of powder. Always add powder to water.
2. Typically use 3.5 litres per bag for high build applications.
3. Part bags can be mixed using a ratio of 5 to 6 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. Large quantities can be mixed using a mixer pump. See Spray Equipment Application Guide.

## APPLICATION

1. Apply using wet spray techniques.
2. Ensure that an initial 5mm to 10mm of **MONOMIX WS** is applied to the area before building up to a maximum of 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. 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.
6. Immediately spray apply **CURING MEMBRANE WB** to aid curing.



## WORKING LIFE

Approx. 60 minutes at 20°C.

## YIELD

16.25 litres per 25kg bag at 3.5 litres water addition.

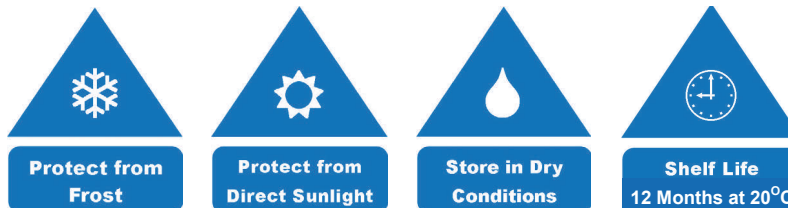
## COVERAGE (Typical)

Thickness	Coverage per 25kg Bag (m <sup>2</sup> )
10 mm	1.63
25 mm	0.65
50 mm	0.33
80 mm	0.20

## 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. Use a screed bar to achieve a final level and finish with a steel float.
4. **DO NOT OVER TROWEL**. If the mortar begins to slump, allow to stabilise and refinish.
5. When finishing, trowel from centre out towards the perimeter working into the edges of the repair.
6. Use **MONOMIX HD** for areas subject to vehicular traffic.
7. Cold Weather Working (see separate Guide)
  - ≥3°C on a rising thermometer.
  - ≥5°C on a falling thermometer.
8. 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.



40°C (max.)

5°C (min.)

## 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](mailto:info@flexcrete.com)  
Web: [www.flexcrete.com](http://www.flexcrete.com)



FM 41091  
EMS 597350  
OHS 597351

Quality  
Environmental  
Health & Safety