

UNIMATCH

USES

Rapid cosmetic repairs to in situ and precast concrete which need to be matched to the parent concrete to provide a high aesthetic finish.

COLOUR

Grey and White.

THICKNESS

Minimum 5mm, maximum 25mm 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.

MIXING



2-3 mins

1. Proportion the material using a ratio of 5 to 6 volumes of powder to 1 volume of water or using 12% water addition by weight into a clean mixing vessel. Add aggregates if required up to 50% by weight of powder.
2. Always add powder to water.
3. Small quantities, typically less than 2kg, can be mixed by hand. Larger quantities should always be mechanically mixed in a clean drum using a slow speed drill and paddle.
4. Use without delay.
5. Do not attempt to re-mix by the addition of more water after the initial mixing process is completed.

APPLICATION

1. For small repairs and the initial layer (25mm maximum) of deep repairs, use **UNIMATCH** mortars as supplied to ensure maximum bond and protection.
2. Trowel the mortar firmly into place completely covering any exposed steel.
3. Allow to stiffen for 4 to 5 minutes before working the surface with a clean, damp trowel, which enables the repair to be trimmed, arrises cut and a final profile of a high quality achieved. The required texture can be easily obtained with either a steel spatula or a polystyrene block. Do not "wet down" the patch repair during this period.
4. For larger repairs (above 25mm), use the layer technique (25mm max. per layer) to minimise heat generation. Score the surface of each layer lightly and allow to cure for 25-30 minutes before lightly damping down and applying subsequent layers.
5. Immediately spray apply **CURING MEMBRANE WB** to aid curing.



WORKING LIFE

5-10 minutes at 20°C.

YIELD

13.5 litres per 25kg pack.

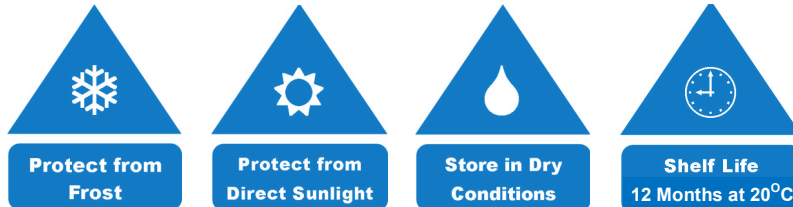
COVERAGE (Typical)

Thickness	Coverage per 25kg Bag (m ²)
10 mm	1.35
25 mm	0.54

CLEANING

Clean tools with water immediately after use.

STORAGE AND SHELF LIFE



HEALTH AND SAFETY

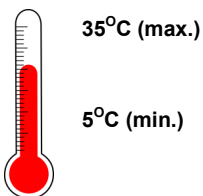
- Non-hazardous
- See Material Safety Data Sheet (MSDS) for full information.

PPE



TOP TIPS

1. Experiment with blends of grey and white to provide a colour match before undertaking repairs.
2. Coloured aggregates and concrete pigments can also be used to colour match where blends of grey and white are unacceptable.
3. **DO NOT WET OUT OR PRIME** between layers.
4. For deeper repairs after placement of the initial 25mm as supplied **UNIMATCH** can be bulked out with aggregates to give economy and strength without affecting the monolithic state of the repair.
5. **DO NOT OVER TROWEL.** If the mortar begins to slump, allow to stabilise and refinish.
6. When finishing, trowel from centre out towards the perimeter working into the edges of the repair.
7. Due to the rapid set of **UNIMATCH**, only mix as much material as can be used within the working life of the mortar.
8. Cold Weather Working (see separate Guide)
 - ≥3°C on a rising thermometer.
 - ≥5°C on a falling thermometer.
9. 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



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