



## M90 Part No. RP06400/19

### All Purpose Fast Set Mortar

#### Applications

**Ultracrete M90** is an all purpose fast set mortar ideal for bedding ironwork and general repairs. The product is suitable for use on all ironwork conforming to BS EN 124.

#### Technical

**Ultracrete M90** is supplied pre-blended in 25kg bags or plastic containers and requires only the addition of water. The product can be used from 10mm-75mm in one pass, with greater depths possible using the layer-upon-layer method. **Ultracrete M90** achieves exceptional bond strength without the use of a primer. The product can be bulked out with the addition of up to 30% hard stone clean aggregate. Please note that this will reduce the products strength gain and alter its performance characteristics.

#### Preparation

Surfaces should be free from any contamination of oil, grease, paint, etc. Remove all loose particles and work on a sound substrate. Pre-soak the area with clean water prior to application to aid bond. Remove ponded water before applying the product.

#### Mixing

**Ultracrete M90** can be mixed with a forced action mixer or by hand with an appropriate tool. If hand mixing is used, ensure that it is vigorous. 25kg of product will require approximately 3.0 litres of water. A stiff consistent mix with no slump should be achieved, ensuring all particles are well wetted. Note: Mix only enough material to apply within 4 minutes. Never remix or add extra water.

#### Placing

Apply the bedding material over a pre-soaked area. Once mixed, **Ultracrete M90** should be applied to the supporting structure within 4 minutes. Firm well into position using a float and allow a 5mm excess thickness. Place the frame onto the bedding mortar ensuring it is fully supported. Check that the frame does not overhang the mortar at any point (use suitable lifting equipment when positioning the frame). Care must be taken to prevent voids in the bedding material under the frame, especially in the cover seating area. The frame should then be tamped into place ensuring the correct level is obtained. Any holes within the frame should be in-filled and the flanges of the frame enveloped by a minimum thickness of 10mm of the bedding material. Exposed surfaces of the bedding material should be float finished, ensuring voids are filled. Remove loose materials and point the inside surface to a smooth finish. Once the bedding material has reached its initial set, the backfill material can be placed.

#### Health & Safety

Operatives should wear protective clothing and work in well-ventilated conditions. This product contains Portland cement which, when mixed with water is alkaline and may in some cases cause skin irritation. If product enters the eyes, wash thoroughly with water and seek medical advice. In common with all powder products, the material should be mixed carefully, avoiding the raising of dust.



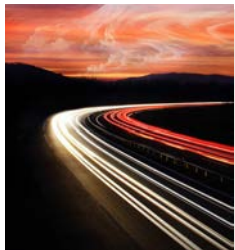
#### Features & Benefits

- Rapid strength gain
- Can accommodate depths from 10mm – 75mm in one pass
- Open to traffic in 90 minutes
- Shrinkage compensated
- Exceptional bond strength
- Economical
- Compatible with all ironwork conforming to BS EN 124
- Soft consistency - easy to trowel
- Consistent set and fast strength gain at low temperatures



#### Related Products

- Ultracrete Envirobond HA104**® High Performance Bedding Mortar
- Ultracrete PY4** Polyester Resin Fast Setting Bedding Mortar
- Ultracrete M60** Rapid Strength Bedding Mortar
- Ultracrete QC10 F** Fast Set Rapid Strength Concrete
- Ultracrete SCJ** Spray Applied Bitumen Cold Joint Sealer
- Ultracrete IRR** Cold Lay Macadam



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### Physical Properties

Test Age	Compressive Strength* (N/mm <sup>2</sup> )	Tensile Strength* (N/mm <sup>2</sup> )
1 hour	12.0	–
2 hours	21.0	–
1 day	28.0	1.82
7 days	40.0	2.46
28 days	>50.0	3.51
Workability	5-10 minutes *	
Setting time	16 minutes *	

\*Depending on temperatures – test carried out at 20°C. Cool temperatures retard, warm temperatures accelerate product performance.

### Product Details

Unit/Packaging	25kg polythene lined paper bags or plastic containers delivered on shrink-wrapped pallets
Storage	Store in closed original packaging at temperatures between 5°C and 30°C. Avoid Frost
Shelf Life	Shelf life in correct conditions for sealed packaging is 6 months. High temperatures and high humidity will lead to a reduced shelf life
Density	2.220 kg/m <sup>3</sup>
Coverage	Approximately, 1 x 400mm x 400mm standard Ironwork Cover and Frame @ 25mm, dependant on bed depth, brickwork and substrate
Yield	12.5 litres (approximately)
Colour	Light Grey

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