

## General Purpose Fast Set Mortar

### Information

**Ultracrete M90** is a general purpose fast set mortar ideal for bedding ironwork and general repairs. **Ultracrete M90** is suitable for all ironwork conforming to BS EN 124.

### Technical

**Ultracrete M90** is supplied in a 25kg bag or tub and is a fully pre-mixed dry-pack only requiring the addition of water on site. It can be used from 10mm – 75mm in one pass, greater depths can be achieved by using a layer upon layer method.

**Ultracrete M90** can be bulked out with the addition of up to 30% hard stone clean aggregate. The addition of aggregate will slow strength gain. Exceptional bond strength is achieved without the use of a primer.

### Preparation

All surfaces should be free from any contamination of oil, grease, paint etc. Remove all loose particles and work on a sound substrate. Pre-wet area with water.

### Mixing

**Ultracrete M90** should be mixed by forced action mixer or by vigorous hand mixing with an appropriate tool. A 25kg bag will require approximately 3 litres of water. A stiff consistent mix with no slump should be achieved, ensuring all particles are well wetted.

### Placing

Always apply the bedding material over pre-wetted area. **Ultracrete M90** material once mixed should be applied to the supporting structure within 4 minutes and firmed well into position using a float allowing a 5mm excess thickness. Place the frame onto the bedding mortar ensuring it is fully supported and at the same time checking that the frame does not overhang the mortar at any point (use suitable lifting equipment when positioning the frame).

Care must be taken to avoid 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 infilled 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 strength the backfill material can be placed. Clean any mixing equipment with water, immediately after mixing,

### Precautions

- Wear protective clothing and wash tools frequently.
- Mix only enough material to apply in 4 minutes.
- Protect for 10 minutes from external water ingress.
- Never remix or add extra water.



### Features & Benefits

**Ultracrete M90** a rapid strength bedding mortar designed for the fast installation of street ironwork. Once applied, the road can be open to traffic after 90 minutes.

- Rapid strength gain.
- Can accommodate depths from 10-75mm in one pass.
- Open to traffic in 90 minutes.
- Shrinkage compensated.
- Exceptional bond strength.
- Economical.
- Compatible with all ironwork conforming to BS EN 124.
- Manufactured under a Quality Management System BS EN ISO 9001:2000.

### Recommended Applications

Bedding of street ironwork, general repairs.

### Related Products

<b>Ultracrete QC10</b>	Rapid strength backfill concrete.
<b>Ultracrete IRR</b>	Permanent cold lay macadam (Type 2, 3 & 4 Roads).
<b>Ultracrete SCJ</b>	Bitumen cold joint sealer.
<b>Ultracrete PY4</b>	Polyester resin mortar.
also	
<b>Ultracrete Instaline</b>	Thermoplastic road marking repair.
<b>Ultracrete Instaband</b>	Skid resistant Overbanding tape.

## Health & Safety

Operatives should wear protective clothing and work in well-ventilated conditions. This product contains cement which, when mixed is alkaline and may in some cases cause skin irritation.

If product enters the eyes, wash thoroughly with clean water. If discomfort continues seek medical advice. In common with all powder products, the material should be mixed carefully, avoiding the raising of dust.

## Typical Lab Result – Ultracrete M90 (NAMAS Accredited)

Age	Temperature	Compressive Strength N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>
1 hour	20°C	12.0	–
2 hours	20°C	21.0	–
1 day	20°C	28.0	1.82
7 days	20°C	40.0	2.46
28 days	20°C	>50.00	3.51
<b>Workability</b>	5 – 12 minutes*		
<b>Set Time</b>	15 minutes*		

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

<b>Unit/Packaging</b>	25kg Poly bag or tub delivered on shrink wrapped pallets
<b>Storage</b>	Shelf life in correct conditions for sealed bags and unopened tubs is 6 months. Please note: the use of this product after the end of the declared storage period may increase the risk of an allergic reaction. High temperatures and high humidity will lead to a reduced shelf life. Store between 5°C – 30°C.
<b>Density</b>	2.220kg/m <sup>3</sup>
<b>Yield</b>	12.5 litres (approximately)
<b>Colour</b>	Light grey

For updated Material Safety Data information visit [www.instarmac.co.uk](http://www.instarmac.co.uk)

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