



ULTRACRETE M45

Rapid Strength Bedding & Repair Mortar

TECHNICAL

Ultracrete M45 is a fully pre-mixed dry-pack and only requires 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 M45 can be bulked out with the addition of up to 50% 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

By hand or machine, a 25kg bag will require approximately 3.3 litres of water. A stiff consistent mix with no slump should be achieved, ensuring all particles are well wetted.

PLACING

Apply material over pre-wetted area and within 4 minutes of mixing. Firm well into position by using a float. Clean any mixing machine with water immediately after mixing.

PRECAUTIONS

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



A cementitious bedding & repair mortar designed for the fast levelling of street ironwork

- ◆ Shrinkage compensated
- ◆ Low temperature placing
- ◆ Open to traffic in 30 minutes
- ◆ Easy mixing
- ◆ Consistent performance in all weather conditions
- ◆ Manufactured under a Quality Assurance Scheme BS EN ISO 9002: 1994

RECOMMENDED APPLICATIONS

- ◆ Levelling of street ironwork
- ◆ Emergency concrete road repairs
- ◆ Hand profiled kerb repairs
- ◆ Tidal repair projects

Setting new standards in cement, resin and bitumen based products.

TECHNICAL ADVISORY SERVICE

Instarmac Group plc provides on site consultancy and technical assistance. We are delighted to work closely with Specialist Contractors.

ANCILLARY PRODUCTS

◆ Ultracrete QC10

Rapid strength concrete

◆ Ultracrete IRR

BBA/HAPAS approved cold lay macadam

◆ Ultracrete SCJ

Spray applied cold joint sealer for sealing vertical edges

Instarmac Group plc
Kingsbury Link
Trinity Road
Tamworth Staffs
B78 2EX

Tel: 01827 872244

Fax: 01827 874466

email@instarmac.co.uk

www.instarmac.co.uk



HEALTH & SAFETY

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


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 RESULTS

NAMAS Accredited

Age	Temperature	(N/mm ²)	Tensile Strength N/mm ²
45 minutes	20°C	20	-
2 hours	20°C	25	
1 day	20°C		1.93
7 days	20°C		2.73
28 days	20°C	40.5	2.83
Workability: 5 – 10 minutes*			
Setting Time: 15 minutes*			

*Depending on temperature

	The Department of Transport	HD 27/94
	Design Manual for Roads & Bridges	Vol 7 Sec 2
3.11 Mortars for bedding ironwork such as manhole cover frames during repairs may be trafficked when the strength is expected to be 20 N/mm ² . For rapid construction, this strength should be achieved within 2 hours.		

Packaging	25kg bag or poly tub delivered on shrink wrapped pallets
Storage	Store in a dry place at temperatures between 5° -35°C. Shelf life in correct conditions for sealed bags is 6 months. High temperatures and high humidity will lead to a reduced shelf life.
Density	2.220 kg/M ³
Yield	12.5 litres (approx)
Colour	Light grey



Ultracrete products are guaranteed against defective materials and manufacture, and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept any liability arising from the application or use of our products because we have no direct or continuous control over where and how our products are used. All products are sold subject to our conditions of sale, copies of which may be obtained on request