

# QC10

## Rapid Strength Concrete

**ULTRA  
CRETE**

High Specification Concretes



Designed for thick section repairs, haunching reinstatements, ironwork backfilling and commercial sign/post installation.

- HAPAS Approved since 2005
- Rapid set: 10-20 minutes
- Open to traffic: 2 hours
- 20N/mm<sup>2</sup> compressive strength in 2 hours
- Shrinkage compensated

### Applications

QC10 is ideal for haunchings, commercial sign/post installation and ironwork backfilling.

### Technical

QC10 contains special cements and graded aggregate, the product requires only the addition of water on site to form a high strength concrete. UltraCrete QC10 is suitable for applications from 30mm - 250mm in one pass.

### Preparation

All surfaces should be free from oil, grease, dust or any other visible contaminants. 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

QC10 can be mixed mechanically or by hand. If by hand, ensure that the mixing is vigorous. Mix the inner bag containing the cement with the sand/aggregate. Add approximately 1 litre of water and mix thoroughly. Then, if required, add sufficient additional water until the required consistency is achieved to a maximum of 2 litres. Note: It is essential that this product not be over-watered. The addition of excessive water will result in slower strength gain, reduced final compressive strength and the possibility of shrinkage cracking. Sand/aggregate contains moisture and the volume of water required will vary depending on the moisture content of the aggregate. Mix only enough material to apply within 4 minutes. Never remix or add water.

### Placing

(In conjunction with the HAPAS Approved UltraCrete Manhole Reinstatement System)

QC10 should be applied with a float 40mm below the required surface, then compacted to ensure no voids are evident. The final surface should be rough floated to achieve a level surface. Once the material has reached an initial set all vertical edges of the reinstatement, including the ironwork, should be sprayed with UltraCrete SCJ. This will prevent the ingress of water into the reinstatement. Ensure all vertical substrates are fully covered.

(In conjunction with thick section concrete repairs, haunching reinstatements, post, sign, fences and barrier erection)

Apply material over pre-soaked area within 4 minutes of mixing. Firm well into position by tamping or using a float. Clean any mixing equipment with water immediately after use.

### Cleaning

QC10 should be removed from tools and equipment with clean water immediately after use. Cured material can also be removed mechanically.

### Storage

Store in closed original packaging at temperatures between 5°C and 30°C. Avoid frost.

### Shelf life

Shelf life from date of manufacture in correct conditions for sealed packaging is 8 months. 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.



compliance  
number: 394

### Health, Safety and Environmental

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash your hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste responsibly and in accordance with local authority requirements. A full material datasheet relating to this product is available from [instarmac.co.uk](http://instarmac.co.uk)

### Quality assurance

All products are manufactured in a plant whose quality management system is certified / registered as being in conformity with BS EN ISO 9001, 14001, and OHSAS 18001. Our 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.

### Technical data

Compressive strength (N/mm <sup>2</sup> )*	
1 hour	12.00
2 hours	20.00
24 hours	30.00
7 days	40.00
28 days	50.00
Workability	5-10 minutes
Set time	20 minutes
Density	2340kg/m <sup>3</sup>
Coverage	1m <sup>2</sup> @ 12mm approx
Yield	12 litres approx
Colour	grey <i>As with all raw materials, colour variation may occur. This does not affect the consistency or characteristics of the product.</i>
Unit/packaging	25kg plastic bag (56 units per pallet)

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

### Contact Us

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