

## QC10 F Part No. RP06400/24 Rapid Set Flowable Concrete

### Applications

**Ultracrete QC10 F** is a specifically formulated two part polymer and fibre modified concrete for backfill around manhole frames and gullies and can also be used for surface repairs.

### Technical

**Ultracrete QC10 F** contains special cements and graded aggregate, the product requires only the addition of water on site to form a high strength concrete. **Ultracrete QC10 F** 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. Good concrete practice should always be observed to enable the mix to be placed into position within 4 minutes.

### Priming

Patching will require the use of Ultracscape Pro Prime Slurry Primer prior to product application. Pre-soak the substrate and apply the primer as per the instructions on its packaging. On large scale areas, only pre-soaking will be required.

### Mixing

**Ultracrete QC10 F** 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. **Ultracrete QC10 F** is formulated to be mixed to a smooth flowable consistency. It is advisable to add a maximum of 2 litres of water initially, mix, and, if required, add up to a further 0.25 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. If the product needs to be applied to falls then the water content can be reduced to obtain a stiffer consistency.

### Placing

**Ultracrete QC10 F** should be poured into place (if required lightly trowel to ensure good contact with edges) 60mm below the required surface. Once the material has reached an initial set, all horizontal surfaces of the reinstatement, including the ironwork, should be sprayed with Ultracrete SCJ. This will prevent the ingress of water into the reinstatement and promote a good bond. Ensure all vertical substrates are fully covered. Clean any mixing equipment with water immediately after use. **Ultracrete QC10 F** should ideally not be used when temperatures are below 0°C or above 30°C. For use in temperatures outside this range please contact Instarmac for advice.

### Health & Safety

Wear the appropriate PPE and avoid skin and eye contact. Wet cement can burn the skin. Mix only enough material to apply within 4 minutes. Never remix or add too much water. Wash tools frequently. Please ensure correct manual handling guidelines are followed at all times. This material should always be used in conjunction with the material safety data sheets.



### Features & Benefits

Part of the BBA/HAPAS Approved Manhole Reinstatement System

- High Strength
- Rapid Set
- Shrinkage Compensated
- Fibre Modified
- Flowable
- Achieves depths of 30-250mm (depending on application)

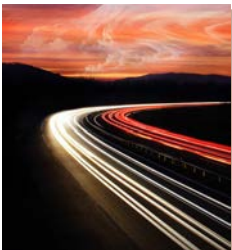
*“Keeps Ironwork stable, increasing durability”*



### Related Products

- Ultracrete QC10** Rapid Set Concrete
- Ultracrete Envirobed** Cement Based Bedding Mortar
- Ultracrete PY4** Polyester Resin Bedding Mortar
- Ultracrete M60** Rapid Strength Bedding Mortar
- Ultracrete SCJ** Cold Joint Bitumen Spray Tack & Seal
- Ultracrete Instant Road Repair** Cold Lay Asphalt Concrete

# RIVVAL<sup>®</sup> ROAD



## QC10 F

### Rapid Set Flowable Concrete

#### Physical Properties

Test Age	Temperature	Compressive Strength* (N/mm <sup>2</sup> )	Flexural Strength* (N/mm <sup>2</sup> )	Tensile Strength* (N/mm <sup>2</sup> )
90 Minutes	20°C	20.0	-	-
1 Day	20°C	35.0	4.50	1.50
7 Days	20°C	50.0	5.00	2.50
28 Days	20°C	60.0	6.00	3.00
Workability	5-10 minutes *			
Setting time	10-20 minutes *			

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

#### Product Details

**Unit/Packaging** 25kg plastic bags with the special cement mix contained in a bag or container delivered on shrink-wrapped pallets

**Storage** Store in closed original container at temperatures between 5°C and 30°C. Avoid frost. This product must be stored in unopened bags, clear of the ground in cool dry conditions and protected from excessive drafts. If stored correctly and used within 6 months of the date shown on the bag, the activity of the reducing agent will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2 ppm) soluble Chromium (VI) of the total dry weight of the cement

**Shelf Life** Shelf life from date of manufacture in correct conditions for sealed packaging is 6 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

**Density** 2300 kg/m<sup>3</sup>

**Yield** 12 litres (approximately)

**Colour** Grey

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