

QC6

Surface Reinstatement Concrete



A non-shrink concrete designed for the surface reinstatement of 'picture frames' or fillets around access covers and surface areas around street furniture.

- Shrinkage compensated
- Excellent workability
- Rapid set: 15 minutes
- Anti-vandal
- Open to traffic: 4 hours

Application

QC6 a non-shrink concrete designed for the surface reinstatement of 'picture frames' or fillets around street ironwork and general repairs to roads and pathways, concrete drives, pavements and surface areas surrounding street furniture. Ideal for reinstatements in town centres and housing estates, where the use of barriers and traffic cones can be eliminated and defects caused by damage or vandalism can be avoided.

Technical

QC6 is supplied pre-blended in 25kg bags and tubs, containing special cements and a 6mm graded aggregate. The product requires only the addition of water to form a high strength rapid setting concrete, which, when set, dries to match most existing concrete surfaces. It can be applied from depths of 12mm to 100mm, depending on application. QC6 should not be used at temperatures below 5°C during application or initial set.

Preparation

Good concrete practice should always be observed to enable the mix to be placed into position within 4 minutes. It is essential that all edges should be saw cut to a minimum depth of 12mm, feather edging is not recommended. 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 promote bond and prevent shrinkage, remove ponded water before applying the product.

Priming

Large Section Repairs only: Ensure the substrate is permanently damp. Remove all ponded water and prime with Ultrascape Pro-Prime, which should be scrubbed well into the substrate. Apply QC6 immediately after mixing ensuring that the primer is still wet.

Mixing

QC6 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 2.75 litres of water. A stiff consistent mix with no slump should be achieved, ensuring all particles are well wetted. Mix only enough material to apply within 4 minutes, never remix or add extra water.

Placing

Apply mixed material over a pre-soaked prepared area to a minimum of 12mm and a maximum of 100mm, within 4 minutes. Firm well into position using a float, paying attention to edges and thin sections. Level up to the surface and finish using a steel float or trowel to close up the surface and seal the edges.

Curing

Small Patches: Curing is not required.

Large Section Repairs: Spray the curing agent, Ultra Floor Prime IT Multi-surface Primer, immediately after a surface finish has been achieved. Due to the rapid hardening features of QC6 a generous amount of curing agent must be applied.

Storage

Store in closed original container at temperatures between 5°C and 30°C. Avoid frost. This product must be stored in unopened bags or tubs, clear of the ground in cool dry conditions and protected from excessive drafts. If stored correctly and used within 8 months of the date. Shown on the bag or tub, 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

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.

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

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 ²)	
2 hours	15.42
4 hours	18.45
1 day	22.79
7 days	50.53
28 days	57.00
Tensile strength (N/mm ²)	
1 day	1.88
7 days	3.11
28 days	3.18
Flexural strength (N/mm ²)	
1 day	4.96
7 days	5.23
28 days	7.71
Bond strength (N/mm ²)	
1 day	1.17
7 days	1.89
28 days	1.70
Workability*	5-10 minutes
Set time*	15 minutes
Density	2250kg/m ³
Coverage	1m ² @ 12.5mm approx
Yield	12.5 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 paper bag (56 units per pallet) 25kg bucket (40 units per pallet)

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