

NUGROUT REPAIR CONCRETE

Flowable Repair Concrete

Description

A cementitious concrete for the repair of concrete highway structures. Designed to comply with the Department of Transport Standard BD 27/86 Clause 3 for replacement concrete in vertical and horizontal locations.

Technical Information

Typical Compressive Strength At 20°C.
 Results in N/mm² using 100mm cubes tested in accordance with BS1811 Part 116.

24 hrs	3 days	7 days	28 days
11 N/mm ²	30 N/mm ²	50 N/mm ²	78 N/mm ²

Typical Density: 2400-2475

Cement: Mixture of 35% BS12 (Portland Cement) + 65% BS6699 (Ground Granulated Blast Furnace Slag for use with Portland Cement)

Cement Content: More than 400kg per M³

W/C Ratio @ 3.5

Itrs per 25 kg bag: 0.39

Aggregate is a 6mm Non Reactive Aggregate.

Flow: In accordance with BS1881 Part 105 is greater than 400mm.

Bleed water in accordance with ASTM C232

Method A: Nil

Surface Preparation

Surfaces should be clean and free from loose and unsound material. Oil and grease should be removed using Desolve. Surfaces should be thoroughly wetted for a period of 2 hours and any surplus water removed before placement.

Placing Concrete

The mixed concrete should be placed as quickly as possible, remembering that flowability decreases with time. Pour concrete from one side only so as to avoid entrapped air and ensure continual free flow of the material.

Concreting should not take place in temperatures of 5°C or lower unless steps have been taken to protect the concreted areas from these conditions.

Where formwork is involved, it is essential that it is thoroughly sealed to prevent concrete loss and it should be coated with Chemlease which acts as a release agent.

Mixing

Mixing may be carried out in a standard free fall type of barrel mixer or pan type paddle mixer of a size suitable for the quantity of mix to be prepared for use at one time. The mixing of part of a bag is not recommended. The mixer should be of a type that will thoroughly mix the material and water without leaving residual unmixed material.

Note: The contents of each bag of Nugrout Repair Concrete requires mixing with clean water only, no other ingredients are required.

The mixer drum is to be clean and free from remains of previous mixes. Thoroughly wet inside the mixer drum and drain off any excess water. Measure out the quantity of clean water into a suitable container 3.5 litres per 25 kg bag depending upon consistency required and place in the mixer drum.

With mixer rotating, add full contents of dry mix to drum and allow to mix until a uniform consistency is obtained, approximately 2 minutes. Use mix as required.

Curing

The placed material must be cured immediately after finishing using good concrete practice. The preferred method is to apply Nufins Curing Compounds directly onto the grouted area. If this is not possible then the grout should be protected with polythene sheeting which is taped down to form a draught proof area.

Limitations

Excessive water additions will reduce strengths. Concreting should not take place in temperatures below 5°C unless steps have been taken to protect concreted area in these conditions.

Storage

Store in cool dry conditions.

Health & Safety

Nugrout Repair Concrete does not present any undue hazard and is non-toxic, however, as it is slightly alkaline, gloves and goggles should be worn and any material should be washed from the skin and eyes before it dries with clean water.

Packaging

Nugrout Repair Concrete is supplied in 25 kg lined sacks, approximate yield 11.0 litres.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



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