

NUGROUT SUPERFLOW

Free Flowing Cementitious Grout

Description

A high strength free flowing cementitious grout based on low alkaline shrinkage compensated Portland Cements with selected admixtures which produce a chloride free grout, containing no corrosive metallic additives. Nugrout Superflow is suitable for many different grouting, bedding and void filling applications. Contains a maximum aggregate size of 3mm, ideal for horizontal sections of between 10mm and 80mm.

Applications

- Production of bearing plinths.
- Crane rail bedding and alignment.
- Grouting of starter bars, holding down bolts etc.
- Bedding of precast concrete beams.
- Repairs to spalled and cracked concrete.
- Grouting of machinery and turbines etc.

Advantages

- Has controlled expansion and is non-shrink.
- Excellent early compressive strength and flexural strengths.
- Resistant to vibration and impact.
- Excellent bond strength to both steel and concrete.
- Material can be poured, pumped or rodded.
- Excellent flowability and placement characteristics.

Technical Information

Typical Compressive Strength Results in N/mm² using 100 mm cubes tested in accordance with BS 1881 Part 116.

Age	Compressive Strength (N/mm ²)
24 hours	20
3 days	40
28 days	60

Typical Density:	2050-2200
Water Addition per 25 kg bag:	2.75 to 4.0 litres
Cement Content:	>400 kg/m ³
Chloride Content:	<0.1%

Note: Strengths based on 4.0 litres of water addition.

Surface Preparation

Surfaces should be clean and free from loose and unsound material. Concrete should be roughened and all laitance removed mechanically. Surfaces should be thoroughly wetted for a period of 2 hours and any surplus water removed before placement. Allow surface to become dry thus obtaining a saturated, surface dry condition.

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 to be prepared for use at one time. The mixing of part bags is not recommended. The mixer should be of a type that will thoroughly mix the material and water without leaving residual unmixed material or 'balling'.

The contents of each bag of Nugrout Superflow requires mixing with clean water only, no other ingredients are required.

The mixer drum is to be clean and free from the remains of previous mixes.

Thoroughly wet inside the mixer drum and drain off any excess water.

Measure out a quantity of clean water into a suitable container depending upon the consistency required, as described in Technical Information. Place two thirds of this in the mixer drum, with mixer rotating add the full contents of the dry mix to the drum and allow to mix for 1 minute.

Add the remainder of the water until the required consistency is obtained and allow to mix for a further 1 - 2 minutes.

Pour the mix into container(s) and allow to aerate for 2 - 3 minutes.

Application Instructions

The mixed material should be placed by pouring or pumping, remembering that flowability decreases with time and temperature. Always mix sufficient material to complete placing in one uninterrupted pour.

Place the product from one side only so as to avoid entrapped air and ensure continual free flow of the material.

When pumping, the addition of excess water is not necessary as this could cause segregation of the mix and inhibit pumping.

Grouting should not take place in temperatures at 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 grout loss and it should be coated with Chemlease to obtain an easier strip.

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.

Packaging

Nugrout Superflow Grout is supplied in 25 kg polythene lined sacks, approximate yield 12.5 litres.

Storage

Store in cool dry conditions.

Health & Safety

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

Limitations

Excessive water additions will reduce strengths and can cause segregation within the mix which may limit the flow.

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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