OCTABUILD
CONSTRUCTION CHEMICALS

Octa Grout NC

HIGH STRENGTH, SHRINKAGE COMPENSATED CEMENTITIOUS GROUT

DESCRIPTION

OctaGrout NC is ready to use, one part cementitious grout. The addition of clean mixing water, produces a non shrink grout of predictable performance.

USES

OctaGrout NC may be used in grouting applications, where a flowable grout is required and where consistency of performance is essential.

Typical applications are as follows:

- Anchor bolts
- Pressing and milling machines
- Generators
- Turbines
- By altering the material's consistency, other operations may be carried out, for instance, filling holes due to form work ties

ADVANTAGES

- Non shrink
- Consistent performance
- High bond strength to concrete and steel
- High compressive strength at early stages allowing minimal downtime on machinery.
- Extremely low permeability

STANDARDS

ASTM C1107-91

TECHNICAL DATA

Typical results @ 25^{o}C
(25 kg bag + 3.8 litres of water)

Compressive strength
(BS 1881: PT 116 1983)

1 Day	26N/mm^2
7 Days	55N/mm^2
28Days	70N/mm^2

Fextural strength
(BS 4551 1980)

1 Day	2.5N/mm^2
7 Days	9.0N/mm^2
28 Days	10.0N/mm^2

Setting time

Initial set	4 hours
Final set	6 hours

Gap width

Minimum	10mm
Maximum	100mm

SURFACE PREPARATION

It is essential that adequate preparation is carried out prior to the application of OctaGrout NC. This preparation should ensure the removal of all grease, oil and loose material.

To avoid absorption and reduction in flow characteristics, it is essential that the prepared substrate is soaked with clean water for a few hours prior to grouting. Before placing the grout, any water remaining on the surface should be removed by blowing clean with oil free compressed air.

The underside of the base plate to be grouted should be clean and any oil and grease must be removed. The underside should preferably have no geometry, which would impede the flow of grout. Should cruciforms be present, it essential that air release holes are drilled through the base plate to avoid trapping air hence reducing the total contact area.

All form work should be sealed to prevent loss of grout during pouring. The form work should be tight to the base plate and parallel to the direction of flow. A gap of around 100mm is required at the pouring hopper with a gap of around 50mm at the opposite end.

MIXING

The product cannot be mixed by hand.

OctaGrout NC must be mixed using a slow speed electric drill fitted with a suitable mixing paddle. This method is suitable for small quantities and for larger quantities it may be necessary to consider the use of a grout pump.

Good planning is essential to ensure a continous flow of grout once pouring commences.

The specified water quantity should measured in an accurately graduated vessel and added to the mixer. The bagged powder is then added slowly whilst mixing. A mixing time of not less than five minutes is required to ensure adequate dispersal of the ingredients. The recommended water used per 25kg bag is 3.8-4.0 litres.

APPLICATION

The grout should be poured immediately after mixing and certainly not more than 20 minutes after mixing is complete to take full advantage of the high flow properties.

Again planning is imperative to ensure that sufficient grout is available to allow continuity of placing.

The mixed product should always be poured from the hopper end of the form work on no account should grout be poured from more than one side of the base plate. Maintenance of a fluid head is essential to avoid air entrapment.

CURING

Once the grouting has been completed, all exposed areas of grout should be cured immediately using a Octa **cure curing membrane.**

PACKAGING AND YIELD

OctaGrout NC is supplied in 25 kg bags. Each bag when mixed with 3.8 to 4.0 litres of water will provide approximately 13.25 litres of mixed material.

EQUIPMENT CLEANING

Tools and equipment should be cleaned immediately using water as, on hardening, the material can only be removed mechanically.

APPLICATION TEMPERATURE RANGE

Minimum 5^{o}C
Maximum 35^{o}C
At temperature above this range the material should be stored in shade and cool water used for mixing.

STORAGE AND SHELF LIFE

OctaGrout NC has a shelf life of 12 months when stored original packing in a cool, dry environment.

HEALTH AND SAFETY

OctaGrout NC contains alkalis and protection should be provided to prevent contact with skin and eyes. Inhalation of dust must be avoided whilst mixing.

Gloves, goggles and a dust mask must be worn. If skin contact occurs wash with plenty of soap and water. Contact with eyes should be treated by immediately washing with copious amounts of clean water followed by medical attention.