

Free-flow non-shrink cementitious grout

DESCRIPTION

DUCON NS Grout is a single-component, free-flow, non-shrink, high-strength cementitious grout for precision grouting applications. Formulated with Portland cement, graded aggregates and controlled-expansion additives, it provides excellent flowability, high strength, and durable load transfer for base plates, machinery foundations, anchor bolts and structural grouting.

RECOMMENDED USE

- Machine base plates
- Generators, compressors and pumps
- Boilers and turbines
- Bolts, dowels and fixings
- Masts, fence posts and supports
- Voids beneath steel base plates
- Structural and industrial grouting applications

FEATURES AND BENEFITS

- Single-component, pre-packed formulation
- Free-flow consistency
- Non-shrink performance
- High early and ultimate strength
- Controlled expansion system
- Excellent load transfer
- Chloride-free and non-metallic
- Excellent bond to concrete and steel

PRODUCT INFORMATION

Compressive Strength (1 Day)	≥30 MPa
Compressive Strength (28 Days)	≥70 MPa
Flexural Strength (28 Days)	10 MPa
Expansion System	Gaseous expansion
Water / Powder Ratio	0.18 (Water : Powder)
Chloride Content	Chloride-free
Working Time	Approx. 25–30 min
Packaging	25 kg bag
Shelf Life	12 months

Statement of Responsibility (Disclaimer)

The technical information and application advice are based on present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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APPLICATION PROCEDURE

General

DUCON NS Grout shall be applied in accordance with the recommended application guidelines by trained personnel.

Surface Preparation

Ensure the substrate is sound, clean and free from dust, oil, grease, laitance and loose contaminants. Mechanically roughen the surface, clean bolt holes and fixing pockets, then pre-soak the substrate and remove all standing water before grouting.

Formwork

Construct rigid, watertight formwork and seal all joints to prevent grout leakage. Provide sufficient grout head for continuous placement.

Mixing Procedure

Mix each **25 kg** bag with **4.5 L** of clean water using a slow-speed mechanical mixer until a smooth, lump-free, free-flowing consistency is achieved. Mix only quantities that can be placed within the working time.

Application

Pour the grout continuously from one side to avoid air entrapment and ensure complete filling. Do not vibrate the grout. Place the grout within **15–20 minutes** of mixing to obtain the full benefit of the controlled expansion system.

Curing

Protect exposed grout surfaces immediately after placement and cure with clean water or a suitable curing method to prevent rapid moisture loss and ensure optimum strength development.

Storage

Store in the original unopened packaging in a cool, dry place, protected from moisture, direct sunlight and extreme temperatures.

Precautions

Wear suitable PPE, avoid contact with eyes and skin, and refer to the SDS/MSDS before use.

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