



MULTIGROUT NSG 680

Cementitious, Shrinkage Compensated, General Purpose Grout

Description:

MultiGrout NSG 680 is a cementitious, free flowing economical, general purpose, non-shrink precision grout with high ultimate strength. Suitable for use in hot and tropical climatic conditions.

Advantages:

MultiGrout NSG 680 is easy to use grout requiring only the addition of water. It offers the following beneficial properties:

- Easy to mix.
- Good flow characteristics.
- Adjustable consistency.
- High final strengths.
- Non-corrosive and iron-free.

Uses:

MultiGrout NSG 680 is used for grouting in the following:

- Machine foundations.
- Columns in pre-cast construction.
- Concrete anchors, cavities, gaps, and recesses.
- Base plates.
- General concrete repairs.
- Bridge bearing pads.

Surface Preparation:

Concrete surfaces should be clean, sound, rough and free from oil, grease, cement laitance and all loosely adhering particles. Absorbent surfaces should be saturated thoroughly with clean water. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.

Mixing:

Add water according to the desired consistency into a clean mixing vessel before slowly adding the MultiGrout NSG 680 powder. MultiGrout NSG 680 is best mixed in a forced action mixer, for 2 to 3 minutes or until the mix is free of lumps, not longer than 5 minutes. Slow speed SS paddle mixer (maximum 500 rpm) should be used for mixing (aluminum paddle is strongly not recommended). Normal tumble type concrete mixers are not suitable. Do not mix more grout than can be placed within 15 to 20 minutes. Do not add extra water or other ingredients. Mix only full bags for best results.

Production Information

Chemical Based	Portland cement, selected fillers and aggregates, special additives
Packaging	25 kg bag
Appearance / Colour	Grey Powder
Shelf Life	6 months
Storage Conditions	Store between 5°C to 35°C in dry place
Maximum Grain Size	Max 4mm

Technical Information

Compressive Strength	≥ 30 MPa 1 day ≥ 45 MPa 3 days ≥ 55 MPa 7 days ≥ 65 MPa 28 days ASTM 1107 / ASTM C109/70mm
Modulus of Elasticity in Compression	35,000 N/mm ²
Expansion	+0.08 % after 28 days
Tensile Adhesion Strength	≥ 1.15 N/mm (concrete failure) (BS 1881)
Coefficient of Thermal Expansion	~11x10 ⁻⁶ per °C

Application Method :

Before pouring let the mixed grout stand for approximately 5 minutes after mixing to allow entrapped air to escape. Pour into the prepared area such that the grout has the shortest distance to travel. Ensure that air displaced by the grout is allowed to escape. When carrying out base plate grouting, ensure a sufficient head of pressure is maintained to keep the mortar flowing. All exposed areas of the mortar surface should be kept as small as possible.

Cleaning :

Clean tools and equipment immediately after use with Multicleaner.





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Precautions:

Always use safety gloves, goggles, and safety shoes before start of application. For best results and good aesthetics, use soft rubber or silicon trowel for finishing of MultiGrout NSG 680. Repack the MultiGrout NSG 680 pack to ensure the shelf life of leftover material. In case of eye contact, rinse with plenty of clean warm water. Seek medical assistance if necessary. Avoid application of MultiGrout NSG 680 if water is standing inside joints. The atmospheric temperature should be between 10°C to 35°C during application. Clean all tools and equipment instantly with water. Keep out of reach of children.

Limitations:

MultiGrout NSG 680 is not chemical resistant. For application under aggressive condition, consult with MultiTech Chemicals Technical Team for advice. MultiGrout NSG 680 cannot be applied at joints subject to movement and expansion. Please consult with MultiTech Chemicals Technical Team for advice. Grout Consumption Chart is only for guidance. Actual consumption may vary according to the site conditions.

Disclaimer:

The information supplied in our literature or given by our employees is based upon extensive experience and together with that supplied by our agents or distributors, is given in good faith in order to help our customers. Our company policy is one of continuous research and development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work. We accept no liability for any loss or damage which may arise as a result thereof.

Health & Safety:

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes. Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting. Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces. Do not expose products to fire or naked flames under any circumstances.

