



DRI-GROUT 225

High strength, non-shrink cementitious grout

Consists of a blend of Portland cement, graded fillers and chemical additives that impart controlled expansion in the plastic state whilst minimizing water demand. Provides high flexural and compressive strength performance.

FEATURES/BENEFITS

- Non-shrink (shrinkage compensated)
- Excellent workability retention
- High bond strength to steel and concrete
- Early strength development with good fatigue & impact resistance
- Micro silica content enhances strength and durability
- No metallic content to cause staining

APPLICATION AREAS

- Machine foundations
- Columns in precast construction
- Concrete anchors
- Bridge bearings
- Cavities, gaps & recesses
- Formwork grouting
- Honeycomb (prepacked grouting)

PRODUCT DATA

Packaging	25kg bag
Storage	12 Months from date of production
Storage Condition	Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 5 – 35 °C. Protect from direct sunlight, rain and water.

TECHNICAL DATA

Origin	Cementitious blend
Fresh Weight Density	2170 kg/m ³
Young's Modulus	28 kN/mm ²
Expansion Characteristics	0.5 – 2.0%
Compressive Strength	1 day: > 26 N/mm ² 7 days: > 55 N/mm ² 28 days: > 70 N/mm ²
Flexural Strength	1 day: > 5 N/mm ² 7 days: > 9 N/mm ² 28 days: > 11 N/mm ²

APPLICATION CONDITIONS

Mixing & Yield	<u>Trowelable:</u> Mix with 3.50 – 3.75L water to yield 12.20L
	<u>Flowable:</u> Mix with 4.50 – 5.00L water to yield 13.30L
Thickness	Placed in thicknesses up to 100mm in a single pour. For thicker sections, it is necessary to fill out Dri-Grout 225 using well-graded silt-free aggregates to minimize heat build-up. Quantities of aggregate added should not exceed 1 part aggregate to 1 part Dri-Gard 225 by weight.

SUBSTRATE

Substrate should be structurally sound, free from oil, grease or any loosely adherent material. Boltholes and fixing pockets must be blown clean of any dirt or debris. Metal surfaces should be clean, free from scale, rust, oil and grease. To assist in the formation of bond between substrate and grout, all absorbent surfaces must be well saturated with clean water, but free from any surface water or puddles prior to the application of Dri-Grout 225.

MIXING

Place about 70 – 80% of the pre-measured clean water (depending on consistency required) into a clean container and gradually add the whole bag of Dri-Grout 225 into it while continuously mixing. Add the remaining water and continue mixing until the desired consistency is obtained. Mix for 2 – 3 minutes with a slow speed drill and paddle (~500 rpm).

For large quantities mixing, the use of a forced-action mixer of rotating pan, paddle or trough type is preferred. Free fall mixers should not be used.

APPLICATION

After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. Pour the material immediately into the prepared formwork.

When carrying out baseplate grouting, ensure sufficient pressure head is maintained for uninterrupted mortar flow.

For formwork repair, the prepared formwork must be firmly in place and kept watertight.

When placing grout over a large area, it is important to maintain a continuous flow throughout. Work sequence should be properly organised to ensure uninterrupted flow.

Dri-Grout 225 is pumpable. Contact Dritech Chemicals for details of suitable pumping equipment.

CURING

On completion of grouting operation, all exposed areas, which are not to be cut back, should be thoroughly cured. Apply suitable curing membranes or other suitable curing practices.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be mechanically removed.

LIMITATIONS

- At lower temperatures, setting time and strength development will be slower.
- Non-shrink grout contains additives which expand either during the plastic stage and/or the hardening stage to compensate for the shrinkage of cementitious matrix. However, this “non-shrink” property will be effective only if the material is not subjected to water loss.

HEALTH & SAFETY

For information & advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In

practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned copies of which will be supplied on request.