



R-GROUT 309

DESCRIPTION

R-GROUT 309 is a pre-mixed, non-metallic, shrinkage compensating grout. Composed of specialized cements, flow agents and graded siliceous sand, R-GROUT 309 requires only the addition of water for use at consistencies ranging from dry – pack to fluid.

USES

R-GROUT 309 is an economical, shrinkage compensating grout that can be used for the installation of anchor bolts, heavy machinery base plates, column sole plates and all areas requiring a general purpose grout.

ADVANTAGES

- Volume Stability – R_GROUT 309 contains special cements that produce a regulated expansion during their hydration. The rate of expansion has been designed to offset shrinkage, due to settlement and drying, in the plastic and hardened states respectively.
- Range of placing consistencies – highly efficient flowability agents enable R-Grout 309 to be placed at consistencies ranging from dry – pack to fluid without segregation while still maintaining low water / cement ratios.
- Strength Development – The rate of strength development, both in compression and flexure, provides for early loading, specifically when used at the drier consistencies.

- The absence of metallic aggregate makes it suitable for use in most conditions encountered in exterior exposure such as wet-dry cycling and continuous moisture saturation.
- There are no chlorides present in R-GROUT 309 therefore its use in conjunction with pre-stressed steel cables or reinforcing bar is not a constraint.

METHOD OF USE

Surface Preparation

All surfaces that will be in contact with the grout should be clean and free of grease, oil, standing water, laitance, loose material or any other contamination that could impair the placing or in – service performance of the structural grout.

Surface should be saturated with water, surface damp at time of grouting.

Mixing

Mixing should be done mechanically (slow speed) to ensure even consistency. The water must be added to the mixer prior to the addition of the dry grout; water content not exceed maximum of 4.5 litres per 25 kg bag of dry grout for plastic consistency and not more than 5 litres for flowable consistency. Mix approximately 3 minutes and to achieve free from lump before placing the grout.

Application

R-GROUT 309 may be rodded into place or trowel handles in areas where freedom of movements is available. Consistency can range from slightly dry to that of wet masonry mortar

R-GROUT 309 may be used with low pressure cement grouting equipment or may be poured into place.

All joints in form work should be caulked with caulking material.

Curing

Immediately after grout has been placed, all exposed areas are to be covered with moist rags. These are to be left in place until such time as a trowel will not penetrate into grout.

When allowed to rest, pointed end down, on the grout surface. Thereafter curing compound is to be used when forms are removed and excess grout cut to shape.

HANDLING

R-GROUT 309 is non-hazardous, but work cleanly and wear protective clothing. Wear a filter mask to avoid inhaling dust. Remove splashes from skin with water and in case of eye contact, wash copiously with water. If irritation persists, seek immediate medical attention.

CONSUMPTION

A bag will yield 0.013 m³ of R-Grout 309 mix.

PACKING

R-GROUT 309 is supplied in 25kg bags at 60 bags per pallet.

SHELF LIFE

If stored in a cool and dry place, the shelf life of R-GROUT 309 is approximately 12 months in unopened bags.

SPECIFICATIONS

Water Powder Ratio	4.5 Litres per 25kg bag (Plastic) 5.0 Litres per 25kg bag (Flow)
Setting Time	
Initial	≥ 60 mins (ASTM C953:1987)
Final	≤ 600 mins (Re-approved 1997)
Compressive Strength(28 days)	≥70 N/mm ² (ASTM C942 : 1999)
Flow Consistency	< 30 seconds (ASTM C939:1997)
Expansion / Shrinkage	+0.25% (ASTM C940:1998a)
Bleeding	0% (ASTM C940:1998a)

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