

ALPHA GROUT-GPN

General Purpose Non-Shrink Cementitious Grout

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DESCRIPTION:

ALPHA GROUT-GPN designed for critical use where high strength, non-staining characteristics and positive expansion are required. It is blend of Portland cement, graded fillers and chemicals additives which impart controlled expansion in the plastic state whilst minimizing water demand. The low water demand ensures high early strength.

USES:

ALPHA GROUT-GPN general purpose grouting is used where it is essential to eliminate shrinkage when completely filling the void between a base plate and a substrate. Such an application would be the grouting of stanchion base plate. It can also be used for anchoring a wide range of fixings. These include masts, anchor bolts and fence posts.

ADVANTAGES AND BENEFITS:

- ◆ Gaseous expansion system compensates for shrinkage and settlement in the plastic state
- ◆ No metallic iron content to cause staining.
- ◆ Ready for use, just water to be added.
- ◆ Does not shrink, controlled and even expansion.
- ◆ Rigid bond between foundation and steel and / or concrete unit.
- ◆ High ultimate strength and low permeability ensure the durability of the hardened grout.

DIRECTIONS FOR USE / APPLICATION:

ALPHA GROUT-GPN is a blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimizing water demand. The low water demand ensures high early strength. The graded filler is designed to assist uniform mixing and produce a consistent grout. The addition of a controlled amount of clean water produces a flowing non-shrink grout for gap thicknesses up to 100mm. In case of large size of holes pockets recommends the addition of aggregate from 10-30%. The size of aggregate should be finalized as per requirement or with the consultation of ALPHA technical representative.

TECHNICAL INFORMAYIONS:

The following results were obtained at a water powder ratio of 0.19 and temperature of 25°C.

PACKING:

Supplied in	20 kg bag
Storage	Dry, Frost free, out of direct sunlight.
Shelf life	12 months, when stores as above
Hazard class	No dangerous goods. Observe

Compressive strength

2' (50mm) cubes (ASTM C-109 modified)
18-25 N/mm² @ 1 day
40-45 N/mm² @ 7 days
60-70 N/mm² @ 28 days

Flexural strength

2.5 N/mm² @ 1 day
9.0 N/mm² @ 7 days
10.0 N/mm² @ 28 days

Time for expansion

Start	15 minutes
Finish	2 hours
Fresh wet density	Approx. 2170 kg/m ³ depending on actual consistency used.

Modulus of elasticity

ASTM C 469-02	>24000 MPa
Expansion characteristics	:An expansion of up to 1% overcomes plastic settlement in the unset material.

STANDARDS:

ALPHA GROUT-GPN meets the performance requirements of ASTM C1107. Grade A & B as well as Grade.