



KEM GROUT NS2

Non Shrink, Free Flow, High Strength Cement Grout

DESCRIPTION:

Kem Grout NS2 is a premixed powder, containing well-graded aggregates, cement and specialty chemical additives to enable achievement of high early strengths. When mixed with the right quantity of water on site, the product turns into a free flowing grout. And, unlike conventional grouts, it does not shrink on setting.

PRODUCT SPECIFICATION / COMPLIANCES:

Kem Grout NS2 complies with ASTM C 1107

Appearance : Cementitious Grey Powder
Chlorides : Nil
Bulk Density : 1.45 ± 0.02 Kg / L
Flexural strength: 9 Mpa at 28 days
W/P ratio : 0.16 for flowable consistency

Age (days)	Compressive Strength Mpa
1	> 20
3	> 30
7	> 50
28	> 60

The above data is typical and could change marginally under site conditions. Site trials are recommended to ascertain exact results

PRIMARY APPLICATIONS:

- Machinery foundation and base plates
- Compressors and turbines
- Heavy duty grouting of pumps and motors
- Chemical and engineering plants
- Structural columns and bearing plates.
- Anchor and seating bolts and pockets



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PRODUCT FEATURES:

Easy to use - just add water on site. The product is Pre packed in controlled conditions for consistency in quality.

Free Flowing - fills up all voids completely. There is no need for compaction for the material in the voids.

Non Shrinking - Occupies the filled space permanently without shrinking. It provides constant support to the load bearing areas.

High early and final Strength – Achieves high early and ultimate strength above 65 Mpa at 28 days.

Non Metallic and Chloride free - Does not contain chlorides and metals thus avoiding any corrosion in the grouted foundation.

APPLICATION METHOD:

Kem Grout NS2 is a ready to use dry powder. Only addition of water is required to make it a free flowing non-shrink grout. Typically, 160 ml of water should be added per kg of Kem Grout NS2 i.e. a Water Powder ratio of 0.16 should be maintained. To use the grout, follow the following procedure carefully.

1. Clean up the entire pocket thoroughly. Remove all loose dirt, oil, grease, water, etc. and keep the pocket clean.
2. Determine size of this pocket to be grouted.
3. If the pocket depth is more than 5 cm, add 30% (by weight of Kem Grout NS2) pre-washed, dry, coarse aggregates of size 4 - 8 mm. (For example if 20 kg of Kem Grout NS2 is initially taken, add to this, 8 kg of pre-washed, dry coarse aggregates of size 4 - 8 mm).
4. Add the required quantity of water to maintain a water powder ratio of 0.125.

5. Start placing the grout from one end of the pocket only. Do not pour from two sides. The material should be quickly poured or placed in order to avoid loss of workability.
6. Strike off the exposed areas as you keep placing the material.
7. Ensure that the air displaced by fluid grout is allowed to escape.
8. Cure Kem Grout NS2 by placing wet hessian cloth or use Kem Cure Aid 10 W for controlled curing.
9. Do not use vibrators for compaction of the material

COVERAGE: 25 kg bag mixed with 4 L of water (Flowable) yields 13.2 L

STORAGE: Store in a cool and dry place away from moisture and direct sunlight. Open bags must be closed immediately after use.

PACKAGING: 25 kg moisture resistant bags

SHELF LIFE: Nine Months in original un opened bags in dry condition

TECHNICAL SERVICE:

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

SAFETY PRECAUTIONS:

KEM GROUT NS2 is cementitious alkaline product; care should be taken to avoid contact with eyes, skin, mouth and food stuff. Any splashes on the human body must be washed with plenty of water

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