

GG2 High Early Strength Grout (HES)

GoMix High Early Strength Grout is a high performance, high early strength gain, expanding and shrinkage compensated Class C precision grout. The highly fluid free flowing grout is a blend of Portland cement and graded aggregate and chemical additives. Expansion compensated for shrinkage in both plastic and hardened states. It is suitable for grouting gap distances 15mm to 300mm or more in a single application. Deep Fill High Early Strength Plus Grout is supplied as a ready to use dry powder, requiring only the addition of a controlled amount of clean water to produce a free flowing non shrink grout for gap thickness from 15mm to 300mm+ in a single application.

USAGE

- Precision grouting, where high early strength gain is required.
- Heavy duty support beneath machine base plates.
- Anchoring bolts, bars and fittings.
- Bridge bearing and crane rails.
- Critical equipment base plates.
- Precast wall panels, beams and columns
- Underpinning..

SURFACE PREPARATION

- Clean surface of oil, grease, dirt, laitance and loose material, down to sound concrete.
- Metal surfaces are to be free of rust or other foreign material.
- Clean bolt holes, bolts and underside of bed plates.
- After roughening the concrete surfaces, saturate the surfaces and bolt holes with water for 24 hours prior to grouting.

FORMING

- Construct a rigid, watertight form around the bearing plate or object to be grouted.
- Form elevation should be approximately one vertical inch higher than the highest point to be grouted.

- On large pours a form sloped at a 45-degree angle or "head box" should be employed to facilitate placement.
- Side and end forms should be positioned at least one horizontal inch from the bearing plate or equipment base.
- Placement side form should be at least two inches from the object to be grouted.
- Do not place grout in large, unsupported open areas.

MIXING

- Add GoMix HES Grout to a bucket of clean water mixing constantly with electric mixer until a thick creamy consistency is achieved.
- Mixing ratio:
Plastic: 20kg grout : 3.5L water
Fluid: 20kg grout : 4.5L water
- Locate the mixing equipment as close to the area to be grouted as possible.
- Mix only the amount of grout that can be placed in 30 minutes.

APPLICATION

- Before grouting remove all ponded water from the surface of the concrete substrate leaving only a damp surface.
- Place grout in bolt holes first.
- Grout should be placed from one direction only in order to reduce the amount of voids under plate.
- Grout should be placed without stopping until the forms are overflowing and entrapped air can no longer be seen in the grout as it flows from under the plate and over the forms.
- The grout should be poured across the slant form, or through funnel, until the grout has completely filled the formed area and is overflowing the forms.

CURING

- Exposed GoMix HES Grout must be protected and cured immediately after placement.

- Cover with clear plastic, damp clean rags or burlap for a period of 72 hours.
- Do not let the rags or burlap dry out during the curing period.
- After the initial 72 hours curing period, and after the forms have been removed, a compliant curing compound should be applied to all exposed areas for a long term cure.

STORAGE

GoMix HES Grout bags are to be kept in dry storage to prevent water contamination, protect from direct sunlight.

SHELF LIFE

Shelf life is one year in unopened bags when properly stored.

NOTE

- Avoid product placement when temperatures are (or will be) below 5°C within 24 hours.
- Do not over-vibrate fluid consistency grout.
- Do not add plasticizer, accelerators or additional cement to non-shrink grout.

PRECAUTIONS

- Contains portland cement and silica sand.
- Freshly mixed cement is highly alkaline and may cause skin injury.
- Avoid creating and inhaling dust.
- Provide ventilation and respiratory protection.
- Wear skin and eye protection.
- Dust mask recommended.

TECHNICAL DATA

Physical state and appearance	
Packing	20kg / bag, grey powder
Working Time:	approximately 30 minutes
Initial Setting Time:	approximately 2 hours
1 Day Strength (MPa)	Flexural 8.3 / Compressive 31.6
3 Days Strength (MPa)	Flexural 9.0 / Compressive 51.6
28 Days Strength (MPa)	Flexural 12.9 / Compressive 81.4

For further information consult our Technical Department

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