

High Strength, Non Shrink and nonmetallic Cement Grout.

DEFINITION

Novo Grout 600 HB is a cement grout supplied as a ready-mix dry powder. The addition of a controlled amount of clean water produces a flowing non-shrink grout

Novo Grout 600 HB is a non-shrink, cementitious cable grout with reduce shrinkage component. It is non-metallic & contains no chlorides. With a special blend of shrinkage-reducing and plasticizing / water reducing agents compensates for shrinkage in both the plastic & hardened states. Suitable for use in hot and tropical climatic conditions.

ADVANTAGES

1. Gaseous expansion system compensates for shrink and settlement in the plastic state.
2. Prepackaged material overcomes potential onsite batching variations.
3. Develop high early strength without the use of chlorides.
4. High ultimate strength and low permeability ensure the durability of hardened grout.
5. Nonmetallic iron free and aluminum free
6. Free from chloride and fluoride.

FIELDS OF USE

Novo Grout 600 HB may only be used by experienced professionals. Use for horizontal & vertical grouting of ducts within bonded, post-tensioned structures.

- Use to grout, fill or repair voids with ducts of posttensioning strands for corrosion protection.
- Use for grouting tight clearances.

PROPERTIES @ 25 C°

Color

grey

*Compressive strength
BS 1881 Part 116 1983
Or ASTM C - 579*

30 ± 2 N/mm² @ 1 day
45 ± 2 N/mm² @ 7 day
50 ± 2 N/mm² @ 28 day

*Flexural strength BS
4551 1980*

3.0 N/mm² @ 1 day
8.5 N/mm² @ 7 day
10.5 N/mm² @ 28 day

Or ASTM C -78

Fresh wet density

2.2±0.05 gm./cm³

Shelf life

12 months in suitable conditions of storage.

DIRECTIONS OF USE

Application instructions

- The surface onto which the grout is to be applied should be scabbled to remove laitance and expose aggregate.
- Do not use bush hammers or similar preparation equipment that can crush the aggregate but leave it in place. The surface must be free of oil, dust, dirt, paint, curing compounds ...etc.

Soak area

- To be grouted, it is watered for 24 hours before grouting to minimize localized absorption and to assist in the free flow of grout.
- Surfaces should be damp but free from standing water.
- Particular attention should be paid to bolt holes to ensure that these are water-free.
- Use oil-free compressed air to blow out bolt holes and pockets if necessary.
- Base plate and anchor bolts must be clean and free of oil, grease and paint... etc.
- Set and align equipment. If shims are removed after the grout has set lightly, greased them for easy removal. Be sure that formwork is secured and watertight to prevent movement and leaking during the placing and curing of grout.

NOVOCHEM S.AE

المقر الرئيس والمصنع


مصر - الجيزة - مدينة السادس من أكتوبر - المنطقة الصناعية الثالثة - بلوك 91,102,103

Headquarters and Factory

Egypt - Giza- 6th of October City - 3rd Industrial Zone - Blocks 91,102,103

Tel. : (+202) 369 182 33

Fax: (+202) 369 182 32

 www.novochem.net

 info@novochem.net

  Novochem



- The area should be free of excessive vibration. Shut down adjacent machinery until the grout has hardened.
- In hot weather, base plates and foundations must be shaded from direct sunlight. Bags of grout should be stored in the shade before use.
- In cold weather, the temperature of base plates and foundations should be raised to >10°C.

Mixing

- In hot weather, use cool water to make the mixed grout temperature <28°C.
- In cold weather, use warm water to raise the mixed grout temperature to >10°C.
- Damp down the inside of grout mixer with water before mixing the initial batch of **Novo grout 600 HB**. Ensure the
- Mixer is damp but free from standing water. Add the pre-measured quantity of water. (4.5 - 5.5 liters water/25 kg) approx...
 - Slowly add the **Novo Grout 600 HB**, mixing continuously. Mix for at least 5 minutes until a smooth, uniform, lump-free consistency is achieved.

STANDARDS

Novo Grout 60 meets the following standards:

1. ASTM C939
 2. ASTM C579 in comp Strength.
 3. ASTM C/78 in flexural Strength.
- **In hot weather (30°C and above)**
 - a. Eliminate application during the hottest time and in direct sunlight. Also use cold water (10-15°C) in mixing grout.
 - b. Store unmixed material in a cool (preferably temperature controlled) environment, avoiding shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.

Notes

1. Fill anchor bolts pockets 25mm less than substrate level before grouting under base plates.
 2. If gap is 10 cm or more, then add 1: 1 max. **Novo Grout 600 HB** is washed and soaked aggregate of 12mm size. This dose Minimize exothermic. It can be used in post tension.
- Refer to **NOVOCHEM** for more technical details. Per packed supply of this grout can be prepared as special order. In large volumes, heavy duty diaphragm pumps or hand Grout pump may use.

STORAGE CONDITIONS

- Store out of direct sunlight, clear of the ground, and on pallets protected from rainfall .
- Avoid excessive compaction.
- Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging .
- For specific storage advice, consult **NOVO**'s Technical Services Department.

PACKING

Novo Grout 600 HB 25 Kg bags

HEALTH AND SAFETY

- **Novo Grout 600 HB** is non-toxic, non-corrosive and any splashes on the skin should be washed with water.
- If contact with eyes occurs, wash well with water immediately and ask for medical advice.

NOVOCHEM S.AE

المقر الرئيس والمصنع


مصر - الجيزة - مدينة السادس من أكتوبر - المنطقة الصناعية الثالثة - بلوك 91,102,103

Headquarters and Factory

Egypt - Giza- 6th of October City - 3rd Industrial Zone - Blocks 91,102,103

Tel. : (+202) 369 182 33

Fax: (+202) 369 182 32

 www.novochem.net

 info@novochem.net

  Novochem

