

Novo Grout 600 HB / S

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High Strength, Non Shrink and nonmetallic Cement Grout.

DEFINITION

Novo Grout 600 HB / S 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 for gap thicknesses up to 100mm.

Novo Grout 600 HB / S is a blend of Portland cement, graded fillers and chemical additives. The low water demand ensures high early strength. The graded filler is designed to assist uniform mixing and produce a consistent grout.

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 / S is used to

- 1. Fill gap under steel base plates in steel structures and production lines.
- 2. Fix big anchor bolts in concrete structures.
- 3. Fill gaps under base plates in bridges.
- 4. Repair of columns and concrete elements.

PROPERTIES @ 25 C°

Color $30 \pm 2 \text{ N/m} m^2 @ 1 \text{ day}$ Compressive strength $45 \pm 2 \text{ N/m} m^2 @ 7 \text{ day}$ BS 1881 Part 116 1983 $50 \pm 2 \text{ N/m} m^2 @ 28 \text{ day}$ **Or ASTM C - 579** 3.0 N/mm² @ 1 day Flexural strength BS 8.5 N/mm² @ 7 day 4551 1980 10.5 N/mm² @ 28 day *Or ASTM C -78* 2.2 ± 0.05 gm./cm³ Fresh wet density 12 months in suitable Shelf life

DIRECTIONS OF USE

Application instructions

The surface onto which the grout is to be applied should be scrabbled to remove laitance and expose aggregate.

conditions of storage.

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

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- 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 <30°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 / S. 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 / S, mixing continuously. Mix for at least 5 minutes until a smooth, uniform, lump-free consistency achieved.

STANDARDS

Novo Grout 60 meets the following standards:

- 1. ASTM C1107 type A.
- 2. ASTM C579 in comp Strength.
- 3. ASTM C/78 in flexural Strength.

Limitation of using and applying Novo Grout 600 HB / S

- 1. Min gap width = 20 mm & width 100 mm.
- 2. In case of gap width more than 100 mm mix Novo **Grout 600 HB / S** with 1: 1 clean aggregate of 12 mm.
- 3. Max. Exposed distance around the perimeter of steel base plate is 50mm except the pouring side may be increased.
- 4. 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.

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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 / S 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

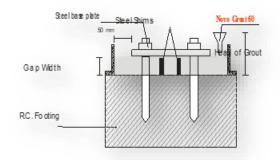
- Store out of direct sunlight, clear of the ground, and on pallets protected from rainfall.
- Avoid excessive compaction.
- Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
- For specific storage advice, consult NOVO's Technical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

PACKING

Novo Grout 600 HB / S 25 Kg bags

HEALTH AND SAFETY

- Novo Grout 600 HB is non-toxic, noncorrosive 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.



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