

High Quality, Non Shrink, Expanding Cementitious Grouting Mortar.

DEFINITION

Novo Grout 60 /s is a cement grout supplied as a ready to dry powder. The addition of a controlled amount of clean water produces a flowing non-shrink grout for gap thicknesses up to 100 mm.

Novo Grout 60 /s is a blend of Portland cement, graded fillers, aggregates and chemical additives which import controlled expansion in the plastic state whilst minimizing water demand. The little 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 the hardened grout.

FIELDS OF USE

Novo Grout 60 /s is used to

- 1. Fill gap under steel base plates in steel structures productions lines. and
- 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	Gray
Compressive strength	$300 \text{ kg/ cm}^2 \pm 20 \text{ @ 7 day}$
BS 1881 Part 116	$350 \text{ kg}/\text{cm}^2 \pm 20 \text{ @ } 15 \text{ day}$
1983 Or ASTM C -	$450 \text{ kg/cm}^2 \pm 20 @ 28 \text{ day}$
579	
Time for expansion	15 minutes
start finish	2 hours
Fresh wet density	2.3 ± 0.05 gm./ cm 3
Expansion	An expansion of up to 1%
characteristics	overcomes plastic settlement
	in the unset
Shelf life	12 months in suitable
	conditions of storage.

NOVOCHEM S.AE

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DIRECTIONS OF USE

Application instructions

- The surface should be scrabbled 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 the grout.
- Surfaces should be damp but free of 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?
- Ensure formwork is secured and watertight to prevent movement and leaking during the placing and curing of grout.
- The area should be free of excessive vibration. Shut down adjacent machinery until the grout has been hardened.
- In hot weather, base plates and foundations must be • shaded from direct sunlight. Bags of grout should be stored in the shade before using.
- In cold weather, the temperature of base plates and foundations should be raised to $>10^{\circ}$ 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 $>10^{\circ}$ C.
- Damp down the inside of the grout mixer with water before mixing the initial batch of Novo Grout 60 /s. Be sure that the mixer is damp but free of standing water.
- Add the pre-measured quantity of water. (3-3.5 liter/25 powder) approx.
- Slowly add Novo Grout 60 /s, mixing continuously.
- Mix for at least 5 minutes until a smooth, uniform, lumpfree consistency is achieved.

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STANDARDS

Novo Grout 60 /s meet the following standards:

- 1- ASTM C1107 type A.
- 2- ASTM C579 in compressive strength
- 3- ASTM C-827 + (1-4%) increasing in volume for unconfined areas.

Limitation of using and applying Novo Grout 60 /s

- 1- Min gap width = 20 mm & width 100 mm.
- 2- In care of gap width more than 100 mm mix Novo Grout 60 /s with 1: 1 cleans aggregate of 12 mm.
- 3- Max. Exposed distance around the perimeter of the 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.

GROUT PLACING

- Pour Novo Grout 60 /s within 10 15 minutes at 25°C under shed condition to gain all properties of the grout.
- Refer to table (1) for gap width, max. Flow distance and Head of casting @ 25 °C under shed.

Notes

- 1- Fill anchor bolts pockets 25mm less than substrate level before grouting under base plates.
- 2- If gap is 10 cm or more, add 1: 1 max. Novo Grout 60 /s to wash and soak aggregate of 12mm size. Refer to NOVOCHEM for more technical details. Per packed supply of this grout can be prepared as special order.
- **3-** In large volumes, heavy duty diaphragm pumps or hand Grout pump may use.

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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 60/s 25 Kg bags

HEALTH AND SAFETY

- Novo Grout 60 /s 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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