

TectorSpex

Non Shrink Grout 710

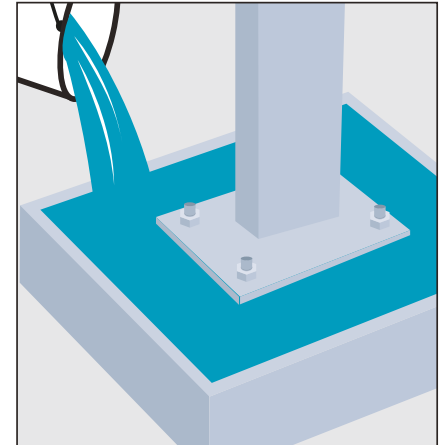
Description

TectorSpex Non Shrink Grout is a premixed cementitious non-shrink grout which when mixed with water gives free flowing shrinkage compensated grout of excellent workability and performance. It contains special hydraulic setting binders, selected aggregates and expansion control additives. It is used for grouting of machinery and equipments.

Specification: Meets the requirements of ASTM-C-1107 & CRDC- 621-83.

Areas of Application

- Heavy machineries & equipments foundation.
- Repair of pre-cast concrete.
- Pre-fabricated unit joints and cable grouting.
- Floor repairs and topping.
- Boiler foundation & turbine generator bearing plates.
- Cavities, gaps, recesses and anchorage.
- Bridge bearing pad & structural columns in pre-cast crane rail construction grouting.



Features & Benefits

- Non shrink property of the grout provides maximum contact with bearing surface.
- Excellent bonding strength to concrete and steel.
- High flowability helps in grouting of larger base plates.
- No bleeding and segregation which controls the flow & strength development of the grout.
- Excellent for dynamic and static loading conditions.
- High early strength and durability characteristics for rapid result.
- Free of chlorides which prevents corrosion of foundation bolts & base plates.
- Easy to grout machine base plates up to 70 mm.

Method of Application

Pre Application Checklist:

- PAN mixer for mixing of grout,
- Storage vessel for storing & placement of the grout after mixing.
- Potable mixing water, sufficient manpower, mould release agent, strong form work of wood /metal.
- Calculate the grout quantity required as per the grouting volume and keep 10% extra quantity to take care of wastage and contingencies.

Surface Preparation:

The surface should be clean, free of dust or de molding agents, oil, paint etc. Clean the area to be grouted with water, 24 hours prior to grouting. The surface should be damp, but strictly free of standing water. The form work should be leak proof.

Application:

- Align the base plate using level bottles. Fix shuttering and grout pouring hopper. Seal the shuttering joints using high consistency grout (Fast setting) or sealant. Allow it to set for minimum 4-5 hours.
- Wet the inside area of PAN mixer with water before starting to mix.

Mixing:

Place 70-80% of the premature clean water [depending on consistency required] into a clean container and gradually add the whole bag of Tector Spex Non Shrink Grout into it while continuously mixing. Add the remaining water until the desired consistency is obtained. Mix 2-3 minutes with a low speed drill [500rpm max]

Application:

After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. The grout is then poured immediately into the prepared formwork. When carrying out baseplate grouting, ensure sufficient pressure head is maintained for uninterrupted mortar flow. For formwork repair, the prepared formwork must be firmly in place and kept watertight.

When placing grout over a large area, it is important to maintain a continuous flow throughout. Work sequence must be properly organized to ensure uninterrupted flow.

For sections thicker than 100mm or for grouting large areas, it is necessary to mix Tector Spex Non Shrink Grout with graded 10mm silt free aggregates to minimize temperature rise generated during curing stage. The quantity of aggregates should not exceed 1 part aggregates with 1 part product. Other precautions such as the use of chilled water, insulation of form work or base plate maybe required.

Precautions & Limitations

- For large pours, the grouting operation shall be done in steps with a high head or by a grouting pump to avoid air entrapment.
- Do not add extra water in any circumstances.
- Ensure that the shuttering is leak proof.
- Pour the mix only from one end under the gravity of 6 to 8 inches head.
- For greater depth (more than 75 mm), fill clean, pre-washed, crushed 10 mm down aggregates (around 40% by weight of powder).

Application of the product should be done according to the procedure mentioned in this leaflet. Lafarge Emirates Cement will not be held responsible for any claim arising out of non-performance of the product due to incorrect application procedure or usage of product for non-recommended purpose. Please contact LEC technical team for more details on application of the product for purpose other than mentioned above or on the surfaces with special construction additives.



Technical Information

Properties	Specification	Results
Density, Kg/m ³		2200 ± 50
Initial Setting Time, Minutes > 300		
Final Setting Time, Minutes		< 600
Compressive Strength,	ASTM C 109: 1999 N/mm ²	
1 Day		24
7 days		47
28 days		68
Flexural Strength, N/ mm ² , 28 days	ASTM C 580	9-10
Tensile Strength, N/ mm ² , 28 days	ASTMC307	5-5.5
Pull Off Adhesion Strength, N/ mm ²	BS 1881, Part 207	2 ± 0.2
Layer Thickness	min 10mm, max 70mm	
Restrained Condition		+ 0.15 to 0.4



Packing: 25 kg

Coverage: Yield 13.10 ltr per 25 kg bag.

Shelf Life & Storage: Shelf life is 12 months from the date of manufacturing. Store at cool & dry place, away from moisture.

Health & Safety Precautions

- As with all chemical products, caution should always be exercised.
- Protective clothing's such as gloves and goggles should be worn (see packaging for specific instructions).
- Treat any contact to the skin or eyes with fresh water immediately.
- Should any of the products be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.



Wear gloves



Wear goggles and respirator mask



Do not swallow, do not inhale



GHS05



GHS07



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