



# LM-G650

High performance non-shrink grout



**LEMAY Non-Shrink Grout LM-G650** is a pre-mixed powder technical mortar that only needs to be mixed with clean water in the correct proportions to get a homogeneous grout for pouring or pumping applications, with many outstanding advantages:

- The rate of strength development is fast, non shrinkage.
- Self-leveling ability, non water separation.
- High strength, impact resistance, corrosion resistance, good vibration resistance.
- Easy to Apply, non-toxic, free of metals, chlorides & nitrates.

## Fields of application

The **LEMAY Non-Shrink Grout LM-G650** is suitable for use in:

- Concrete repair.
- Fill pipes, holes through the floor - wall.
- Foundations for machines and heavy equipment.
- Foundations for rail platforms, columns in precast concrete structures.
- Anchor bolts, headrests, mechanical devices, metal trusses.
- Seal the gaskets, connecting rods.
- Filling the base of pre-engineered steel building columns and joints.
- Concrete pipelines are subjected to stress.
- Pumping grout or pouring into the gap between the concrete structure and the precast concrete

## APPLICATION:

### Surface preparation:

- Concrete surface must be clean, free from impurities, grease, chemicals, ensuring solidity.
- Metal surface must not rust, do not stick to grease
- Mold lubricants, curing agents need to be cleaned by mechanical methods or high pressure water spray.
- Moisten (saturate) the surface with clean water before grouting.
- Install formwork, formwork can be made of wood, steel or other materials depending on the specific case, but must be hard, sealed and held firmly to prevent warping under the pressure of the mortar until the mortar frozen.
- Before installation, it is recommended to sweep mold lubricant on the inside of the formwork for easy dismantling.
- Make a trough to pour mortar, the height is at least 200mm.

### Mix:

- For large batches, mortar mixers or forced mixers should be used. For small batches, use a hand mixer to mix at low speed (600 rpm).
- Put clean water into the mixing tank first, then slowly add the mortar powder while the mixer is running. Mix well until a smooth, homogeneous, liquid mortar is obtained, mixing time at least 3 minutes.
- Ratio of mixing water is 15% by weight of mortar.

### Application:

- The application temperature between 10°C and 40°C..
- Minimum thickness of mortar layer is 8mm.
- Pour grout immediately after thoroughly mixed, maintaining pressure to keep the flow uninterrupted without interruption.
- Apply grout as quickly as possible (full pour within 20 minutes after mixing), must be poured continuously until finished.
- When grouting into structures, it is necessary to water to clean and saturate the surface & drain before application.
- Curing exposed grout surface as soon as the mortar is dry by covering with wet burlap, or spraying with specialized curing solutions.

### Clean:

- Clean equipment and tools with water after construction is completed, before the curing material.

## CONSUMPTION:

- Depending on the thickness of the mortar layer, either use raw mortar or add composition.
- Reference norm: 13.1 liters of mortar/bag of 25kg
- To make 1m<sup>3</sup> of mortar, need 1.900kg dry mortar (equivalent to 76 bags of 25 kg).



## SPECIFICATIONS

Color	Grey
Shape	Powder
Packaging	25 Kg/ bao
Denisty	≈1.60 kg/lit (Dry) ≈2.22 kg/lit (Wet)
Ratio	13% - 15%
Consumption	1 bag for about 13.1 liters 76 bags for about 1m <sup>3</sup>
Application temperature	Min 10°C Mã 40°C
Minimum gap	10 mm
Water separation	0% (ASTM C940)
Flow rate ASTM C1437	25cm - 32 cm
Expansion	≥ 0.1% (ASTM C940)
Compressive Strength ASTM C942, ở 27°C	1 day ≥ 20 N/mm <sup>2</sup> 3 day ≥ 30 N/mm <sup>2</sup> 7 day ≥ 40 N/mm <sup>2</sup> 28 day ≥ 65 N/mm <sup>2</sup>

## PACKING, SHELF LIFE & STORAGE:

- The product is packed in moisture-proof multi-layer packaging, weighing 25kg/bag.
- Shelf life 12 months from date of manufacture in unopened packaging.
- Store in a dry place, do not stack more than 10 bags for a long time.

## SAFETY INSTRUCTIONS:

Lemax Non-Shrink Grout LM-G650 contains cement, so it may cause skin irritation when exposed to sweat. Gloves and safety glasses should be worn when using the product. If the product accidentally splashes into the eyes, wash immediately under clean running water and go to the nearest medical facility for examination. Seal the mouth of the bag if not used all the time. Keep out of reach of CHILDREN.

Do not pour the product directly into the sewer, it is necessary to comply with environmental regulations when using.

Read the user manual carefully and take safety precautions before using the product.

## EXCEPT

*The technical information and manuals contained in Lemax documents are based on our knowledge and practical experience. The information contained herein is of a general nature only and it is up to the user to determine the suitability of the product for his or her intended use and assume all risks and liabilities involved. Lemax makes no warranties of merchantability or fitness for particular purposes, nor assumes any liability arising from any legal relationships that may be inferred from this information or from any written guidance. or any other form of consultation.*

*Lemax reserves the right to change the physical parameters of the product without prior notice.*

*The user must refer to the product's latest technical documentation.*