



# **BILIZO**<sup>®</sup> **GROUT**

## **Cement-Based, High Strength Grout Mortar**

### **Product Description**

BILIZO GROUT is cement, high strength, non-shrinking, self-compacting grout.

### **Uses**

- In the manufacture of curtains and column headers
- In the assembly of prefabricated concrete structural elements
- Power plants
- Fixing the base of steel column
- All kinds of industrial machinery, generators, compressors and pumps for fixing
- Reinforced concrete and steel coil(heat insulation) filling the gaps that are left is used for applications in a controlled manner.

### **Packaging**

25 kg polyethylene reinforced paper bags.

### **Consumption**

About 160 g of water for 1 kg bilizo grout should be used. 4 lt per 25 kg bag is sufficient. Mixture density 2,20 kg/lt. In order to achieve 1 cm thickness of approximately 19 kg/m<sup>2</sup> should be used with powder products.

Depending on the system solutions, the usage pattern may vary.

### **Advantages**

- Alone mixed with water is poured into the mold and easy to apply.
- Provides high adhesion to concrete and the reinforcement.
- Has a high compressive strength.
- Freeze-thaw cycle resistant
- High fluid properties.
- Do not vomit water, plastics, and expanded in the early hardening phase.
- The physical properties of the weather conditions during the service period does not change.
- Impermeable to water, resistant to chlorine,sulfate wastes,oils.
- Does not shrink.

### **Technical Data**

<b>Chemical Structure</b>	Contains mineral fillers and special polymer reinforced cement.
<b>Color</b>	Grey
<b>Compressive Strength</b>	(TS EN 196)
<b>1 day</b>	30 N/mm <sup>2</sup>
<b>7 day</b>	50 N/mm <sup>2</sup>
<b>28 day</b>	60 N/mm <sup>2</sup>
<b>Flexural strength(28 days)</b>	(TS EN 196) 8 N/mm <sup>2</sup>
<b>Adhesion Strength</b>	(TS EN 1542)
<b>Concrete(28 days)</b>	2,00 N/mm <sup>2</sup>
<b>Steel(28 days)</b>	2,00 N/mm <sup>2</sup>
<b>Modulus of elasticity(28 days)</b>	2000 N/mm <sup>2</sup>
<b>Application Thickness</b>	min. 10 mm-max. 40 mm
<b>The Temperature Of The Ground To Be Applied</b>	+5 °C +30 °C
<b>Service Temperature</b>	-20 °C +400 °C
<b>Time of use(+20 ° c)</b>	45 mins
<b>To be able to walk on time(+20 ° c)</b>	24 hours

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.

<b>Full Cure Time (20 ° C)</b>	28 days
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Note: The above values are given for the +23 ° C and 50% relative humidity. High temperatures can shorten the duration of low temperatures will extend it.

## Application

**Surface Preparation:** Before the machine is placed in concrete grout coming loose and damaged areas should be cleaned surfaces should be roughened. Nuts and bottom surface of the contaminated oil, grease and dust, impurities must be cleaned of all kinds which could affect performance. The base plate must be previously opened the vent holes. Machinery placed location and scale should be set, then the position must not be changed at all. Setting blocks (shims) to be removed later, should be lightly oiled to prevent sticking of grout. After the installation and tuning of the machine runs for 6 hours before grouting cast concrete foundation should be saturated with water.

**Mixing Procedure:** An appropriate amount of water described above is poured into a clean mixing mold package. BILIZO GROUT bag was opened and water is added slowly while mixing the grout at a speed approximately 3-4 min until homogeneous 400-600 is stirred with the drill, the material should not be lumps. Up again after being rested for 3 minutes and mixed for 1 min the material is ready for application.

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**Surface Application:** Molds, grout will not absorb water and leakage of solid material will be made during the operation so as to withstand the forces must be installed to meet. On the losing side of the base plate grout between the casting and the mold cavity in the edge of 5 cm should be left. To give pressure into grout for spreading, the height of the mold according to the situation on the side of the casting should be considered. It may take such measures such as lubricate the surface of the concrete foundation, the first batch of castings normally make a slurry containing more than 5% water, using equipment such as pipes, pump or make pressure until 1,5 m for filling very large plaques. The edges of the plates to prevent leakage and pressure loss should be without spaces. If necessary, the machines until receives grout plug at +20 °C should not be run for at least 10-12 hours. Prepared grout surface thickness to be at least 10 mm from one floor to be poured continuously by only one of the mold. A thickness of 4-5 cm should not be exceeded in large areas, but depending on the details of casting the grout, thicker applications can be performed on the floor 2 or 3. Stone crushing aggregate to be used should be chosen as the no. 1, 5-16 mm in diameter should be cleaned and washed prior to application. The air within the mold to avoid pinching, a two-sided breakdown should be avoided. In order to fill all the gaps in the mould, the steel is made to the placement of the tip of the hook should be made using a wire. After the application, the plates for 18-24 hours should not be taken. Wide range of surfaces open to the atmosphere, especially on hot, dry and windy environments with wet burlap or water for 24-48 hours and the ingredients must be protected against rapid evaporation setup. Adjustments wedges should not be taken before 2 days. After receiving the machine business, the loosening of the nuts and bolts should be checked and if necessary, must be tightened.

## Storage

12 months from date of manufacture under appropriate storage conditions. Enclosed by the mouth of the opened packages should be consumed within 1 week. Unopened in its original packaging in a cool, dry environment, should be stored protected from frost. Short term storage of more than 3 pallets should be placed on top, and the first-in, first-out system should be shipping with. Should not be placed on top of pallets in long-term storage.

## Safety Measures

Refer to Material Safety Data Sheet (MSDS) prepared as per the related EU directives before use.

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