

## **ISOLION GRT 152**

### **CEMENT-BASED FLUID GROUT MORTAR**

<b>Product Definition</b>	<ul style="list-style-type: none"><li>› It is grout mortar that is self-spreading, reinforced with specific chemicals, that does not create shrinkage, that is single-component, cement based, polymer additive, with high adherence and resistance.</li></ul>
<b>Fields of Use</b>	<ul style="list-style-type: none"><li>› Field concretes,</li><li>› In repair of plane and helicopter fields,</li><li>› In fixation of steel columns and poles,</li><li>› Under all types of industrial machinery bearings,</li><li>› Engineering structures such as subway, highway and dams,</li><li>› In reinforcement projects for places where repair, repair and concrete shears merge with beams,</li><li>› Connecting prefabricated elements.</li></ul>
<b>Characteristics and Advantages</b>	<ul style="list-style-type: none"><li>› It is an easy to use product.</li><li>› It achieves very fast resistance, can be loaded after 1 hour.</li><li>› Does not shrink, shows high fluidity.</li><li>› Strong against oils and acids.</li><li>› Not affected by moisture because it does not contain any metals.</li><li>› It is not toxic.</li><li>› Waterproof.</li><li>› Does not contain solvent, asbestos.</li><li>› Resistant to freezing and dissolution.</li><li>› It is resistant against various chemicals.</li></ul>
<b>Application Details</b>	<ul style="list-style-type: none"><li>› Surfaces should be clean, smooth and solid as purified from adhesion prohibiting materials and wastes such as dust, oil, dirt, rust, mold lubricant and detergents. If any cracks and holes exist on the surface to be applied, they should be repaired with ISOLION REPAIR MORTAR. ISOLION GRT 152 application should be conducted 3-4 days later. Absorbent surfaces should be dampened, but no water accumulations and drops should be left.</li></ul>
<b>Surface Preparation</b>	

## Application

› 25 kg powder form of ISOLIO GRT 152 is poured into 4-5 l clear water located in a clean container. Material poured into a container is mixed until a homogeneous mixture without lumps is achieved with the help of low speed mixer or a drill. Mixing duration should be 5 min. at least. Mortar achieved at the end of process is rested for 3 minutes (to let organic materials inside to be solved), and then it should be mixed until it becomes homogeneous. Mortar ready to be used is applied within 5 minutes. To fill gaps in enclosed places, ISOLION GRT 152 is poured from one side. Application thickness should be between 10-60 mm at one application. 30% rate 5-12 mm diameter aggregate is added to material used in applications more than this thickness. This aggregate;

- › Is added to prepared mortar.
- › It is poured and spread in the place of application.

## Warnings and Recommendations

- › For exterior applications, it should be protected from sun, rain and freezing for the first 3 hours.
- › Reagent times in cement-based products are affected by the environment and ground temperatures. Reaction times are shortened in hot environments and extended in cold environments.
- › During the application, work clothes should be worn, suitable goggles and respirators should be used in accordance with work and worker health rules.

## Technical Specifications

Color	Gray
Appearance	Dust
Grain Size	Dmax 2 mm
Application Temperature	(+5°C) - (+35°C)
Mix Ratio	4 – 5 l water / 25 kg powder
Processable Duration	Min. 30 min.
Plaster Density	2.30 ± 0.1 kg ./l
Service Opening Duration	Approximately 2 hours
Application Thickness	At least 10 mm/At most 60 mm
Bending Strength (28 days)	≥ 9 N/mm <sup>2</sup>
Compressive Strength (28 days)	≥ 45 N/mm <sup>2</sup> (TS EN 196-1)
Adherence Resistance (28 days) TS EN 1542	≥ 2 N/mm <sup>2</sup>
Capillary Water Absorption (TS EN 13057) 28 days	≤ 0.5 kg/(m <sup>2</sup> .h0.5)

\*\*\* Tests have been performed in a laboratory environment at 23 °C and 50% relative humidity.

## Consumption

- › Depending on surface condition and workmanship, 12.5 kg/m<sup>2</sup> for 1 cm thickness. (In wet form)

## Packing

- › In craft bags of 25 kg.

## Shelf Life

- › 6 months under in unopened original packaging.

## Standard

- › Conforms to TS EN 1504-3 R3 Class Standard.

