

**Repair, Reinforcement and Restoration /
Cement Based Repair and Grout Mortars**

REPAIRGROUT GP F50

Shrinkage Compensated Flowable Grout and Anchoring Mortar

DESCRIPTION

Cement based, single component, **shrinkage compensated, high strength structural** grout and anchoring mortar in **fluid consistency**. Complies with **R4** class, does not segregate or bleed.

APPLICATION AREAS

- Indoor and outdoor,
- Anchoring and bedding of machinery feet,
- As a flowable mortar, in hard to access areas,
- Repairs that require early high strength,
- Filling and strengthening the gaps and cavities between column and beam joints,
- Repairs of segregated concrete by using mold.

TECHNICAL PROPERTIES

Appearance	Grey colored powder
Powder Density	~ 1.45 kg/L
Water Mixing Ratio	3.36 L water / 20 kg powder
Resting Period	2 – 3 minutes
Application Temperature	Between +5°C and +35°C
Compressive Strength	1 day : ≥ 30 N/mm ² (EN 12190) 7 days : ≥ 35 N/mm ² (EN 12190) 28 days : ≥ 50 N/mm ² (EN 12190)
Application Thickness / Layer	Min. 10 mm, Max. 50 mm
Walk-on Time	24 hours

ADVANTAGES

- Due to its flowability, it can grout gaps which are hard to access and can be applied easily with a pump.
- Prevents shrinkage after setting.
- High strength and flowable concrete can be obtained by mixing with number I clean aggregate by 25%.
- Has early high compressive strength.
- Resistant to oil and water permeability due to its high density.
- Does not contain metallic aggregate and chlorine.
- Economical.
- Only mixed with water, easy to apply.

CONSUMPTION

Appr. 18 – 20 kg/m² (for 10 mm thickness)
2 kg powder is used for 1 L mortar.

PACKAGING

20 kg kraft bags

APPLICATION

PREPARATION OF THE SURFACE

- The application surface must be cured.
- The surface must be free of weakly adhered parts and clear of materials which prevent bonding, such as dust, oil, paint, curing agents, detergents and mold release oils.
- Locate and balance the feet of the machine; do not change its position.
- Wet the surface and keep it moist, but remove completely the excess water ponding on the surface.
- Close the active water leaks on the surface with a suitable plug and drain the water leak.
- Molds must be solid to prevent leakage, the area must be protected from any vibration until the mortar sets.
- Place the mortar whose expansion force is desired to be used at maximum level, in a rectangular cavity with vertical sides. The minimum acceptable depth is 6 mm. If it is desired to be used as a coating, the recommended maximum thickness is 50 mm.
- For thicker applications, apply the repair mortar in layers (It should be noted that each layer must be cured itself.)

PREPARATION OF THE MORTAR

First, add half of the powder in a 20 kg bag to 3.36 liters of water and mix with a mixer with low speed (400 – 600 rpm) until there are no lumps. Then add the rest of the powder. Mix for at least 5 minutes. 10 liters mortar is obtained.

APPLICATION

- Apply the mortar with a trowel, between 10 – 50 mm on each layer. Pour the mortar uninterruptedly from only one side of the mold to prevent air entrapment. For thicker application, apply the second layer to the surface in the same way when the first layer is dry.
- Do not expose to vibration, locate with a steel wire.
- Place a metal string or chain inside the mold to help spread the mortar over large areas and prevent air bubbles. If a chain is to be used, move the chain in short and rapid oscillations before the mortar begins to set.
- Remove the molds in approximately 24 hours.
- It must be cured immediately after the application. Continuing curing at normal temperature for a week is good for increasing the durability, strength and other properties of the material.
- Deficiencies in curing can reduce the initial expansion required to compensate for subsequent shrinkage.
- Do not operate the machines until the grout mortar sets (approximately 24 hours)

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Be extremely sensitive in water ratios. Mix it with a low-speed mixer and do not mix manually.
- If the ambient temperature is below +8°C, cover the floor and keep the mortar at minimum +8°C.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours, or in areas open to direct sun and wind.
- Do not add water and powder to the expired mortar.

SHELF LIFE

Expires in 12 months. Store unopened packages in non-humid environments. Stack up to 10 packages on the pallet.



Technical Data Sheet (TDS)

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HEALTH AND SAFETY

As with all chemical products, contact with food, skin, eyes and mouth should be avoided during usage and storing. During the application, work wears, protective gloves and goggles should be used according to the work place health regulations. If swallowed by accident, consult a doctor. Rinse with water in case of contact with skin. Keep out of reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at $23\pm 2^{\circ}\text{C}$ temperature and $50\pm 5\%$ relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Construction Chemicals Ltd. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.