

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

REPAIRGROUT EXPAN T60

High Strength Shrinkage Compensated Grout Mortar

DESCRIPTION

Cement based, single component, **shrinkage compensated, thixotropic, high strength structural** grout mortar. Complies with **R4** class.

APPLICATION AREAS

- Indoor and outdoor,
- Horizontal, vertical and overhead repair applications,
- Repairs that require early high strength,
- Repairing reinforced concrete construction elements and floors,
- Repairing concrete with segregation,
- Grouting joints that exist between old and new concrete,
- Grouting tie-rod holes, core holes and chamfering applications,
- Grouting the gaps that exist around the installation pipes and elements.

TECHNICAL PROPERTIES

Appearance	Grey colored powder
Powder Density	~ 1.50 kg/L
Water Mixing Ratio	3.9 L water / 25 kg powder
Resting Period	5 – 10 minutes
Pot Life	~ 45 minutes
Application Temperature	Between +5°C and +35°C
Compressive Strength	1 day : $\geq 30 \text{ N/mm}^2$ (EN 12190) 7 days : $\geq 50 \text{ N/mm}^2$ (EN 12190) 28 days : $\geq 60 \text{ N/mm}^2$ (EN 12190)
Application Thickness (Per Layer)	Min. 10 mm, Max. 50 mm
Walk-on Time	24 hours

ADVANTAGES

- Does not shrink. In thixotropic consistency.
- Provides high compressive strength.
- Resistant to impacts and vibrations.
- Provides high adherence to concrete and reinforcement.
- Resistant to water and frost.
- Does not contain corrosive materials.
- Only mixed with water, easy to apply.

CONSUMPTION

Approximately 20 kg/m² (for 10 mm thickness)

PACKAGING

25 kg kraft bags

APPLICATION

PREPARATION OF THE SURFACE

- The application surface must be fully cured.
- Clear the surface of weakly bonded parts and materials that prevent bonding such as dust, oil, tar, bitumen, paint, silicone, curing agents, detergents, and form-release oils.
- Moisten the application surface and keep damp; however, remove completely any excess water causing ponding.
- If there is an active water leakage on the application surface, seal it using a suitable plugging compound and divert/drain the water.
- Place the mortar intended to utilize its expansion force at maximum efficiency inside a rectangular opening with vertical edges. The minimum acceptable depth is 6 mm. If the product is intended to be used as a screed/overlay, the recommended maximum thickness is 50 mm.

PREPARATION OF THE MORTAR

Add half of the powder from the 25 kg bag into 3.9 L of water and mix with a low-speed mixer (400 – 600 rpm) until a lump-free mixture is obtained. Then add the remaining powder and continue mixing for at least 5 minutes to obtain approximately 12.2 L of mortar.

APPLICATION

- Apply the mortar with a trowel in layers of 10 – 50 mm. For thicker applications, apply a second layer after the first one has dried. Large surfaces exposed to the atmosphere must be cured and protected against rapid evaporation. Insufficient curing may reduce the initial expansion required for proper shrinkage compensation.
- The product must not be subjected to vibration.

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Handle the water ratios with utmost precision. Always use a low-speed mixer and do not mix manually.
- Do not use as a finishing floor covering material on large surfaces.
- If the ambient temperature is below +8°C, cover the floor and keep the mortar at minimum +8°C.
- Avoid application on frozen substrates, areas at risk of freezing within 24 hours, or areas open to direct sunlight 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.

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±2°C temperature and 50±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.