

PRODUCT DESCRIPTION

PlekoGrout PTG is a high-performance, single-component, cementitious grout specifically designed for post-tensioning applications. It is formulated to provide exceptional fluidity, high strength, and non-shrink properties. PlekoGrout PTG is composed of hydraulic binders, selected aggregates, and special chemical additives. It is designed for use in fluid consistency and offers superior durability, corrosion protection, and ease of application by just adding water, ensuring improved on-site quality control

USES

PlekoGrout PTG is suitable for:

- Grouting post-tensioning ducts in prestressed concrete structures
- Anchoring and securing high-stress steel elements
- Void filling applications requiring a non-shrink material
- Structural repairs where high flowability is required
- Industrial equipment bedding and anchoring
- Grouting applications in bridges, tunnels, and precast elements
- Does not contain metallic iron

APPROVED SUBSTRATES

PlekoGrout PTG can be used onto properly prepared concrete, ducts, and steel elements.

PACKAGING

20 kg in multiply paper bag.

YIELD

One 20kg bag mixed with 6.6-6.8 liters of water will yield approximately 13.2 -13.4 liters of grout.

Manufacturer does not warrant square meter coverage, which can vary greatly according to application techniques.

PROPERTIES

- **High early and ultimate strength**
- **Non-shrink, dual expansion compensates for shrinkage**
- **Excellent pumpability for long-distance applications**
- **High durability with low porosity ensuring long-term performance**
- **Chloride-free, preventing corrosion of embedded steel**
- **High resistance to dynamic loads and vibrations**
Factory Controlled Quality

TECHNICAL DATA

Appearance	Free-flowing Grayish powder
Bulk Density (Kg/L \pm 0.5)	1.19
Mixed Density (Kg/m ³) (depending on consistency used)	Approx.2000
Water Demand (%)	30-34
Expansion (%)	1-4
Chloride Content	Nil
Flowability	Excellent
Compressive Strength* (N/mm ²)	\geq 60
Flexural Strength* (N/mm ²)	\geq 10

*after 28 days ASTM C-109; ASTM C-940; ASTM C-1107

INSTALLATION

SUBSTRATE PREPARATION

Surface must be sound, clean, dry, free of bond-inhibiting materials such as paint, grease, oil, efflorescence, form release agents and curing compounds. It should have been sufficiently cured in a way that any shrinkage has already occurred.

Saturate the substrate with clean water to provide a saturated surface dry condition, if possible soak surface for few hours before application. Any surface water should be removed using an oil free compressed air.

MIXING

Use a clean container free of all foreign substances for preparing and mixing material. Use a heavy duty electric drill and mixing paddle; forced action mixer or pan mixers can also be used. Add powder to the water in small increments while mixing thoroughly to achieve lump-free consistency. Avoid working excessively to prevent air entrapment. Let mixture set for 5 minutes and re-temper. If needed add water (within limits given) to adjust consistency. Do not add water once the mixed mortar starts to harden. Do not mix less than 1 bag or attempt to mix by hand. The grout should be placed within 20-30 minutes of mixing.

APPLICATION

Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing. Sufficient grout must be prepared before starting. Pour PlekoGrout PTG into the prepared area in a way that the grout has the shortest distance to travel. Ensure that air displaced by the grout is allowed to escape. Pour the grout continuously maintaining sufficient hydrostatic head of pressure to keep the mortar flowing. For large areas it is recommended to use pumping equipment's.

LIMITATIONS

Apply only to unfrozen surfaces above 4 °C (40°F). Maintain minimum 4 °C (40°F) ambient temperature for 24 hours after application. For ambient temperatures above 35°C, use cool water for mixing to maintain mortar temperature below 30°C.

Do not mix with any additive or product unless recommended by Pleko.

Pleko bears no responsibility for the defects due to the improper or non-recommended use of the product.

CLEANING

While still fresh, soluble in water. Clean all equipment with water immediately after use. After hardening, tools should be cleaned mechanically.

STORAGE

Store in cool, dry, well-ventilated area, protected from freeze, heat and direct sunlight and at a temperature between 4°C (40°F) and 38°C (100°F), in tightly sealed original container off the ground. Storage time must not exceed one year.

HEALTH AND SAFETY

Avoid contact with eyes and skin. Prevent inhalation of dust.

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention.

The product is non-flammable

Attention

This product is intended for use by qualified professional contractors, as a component of a larger construction system and specification. It should be installed in accordance with given instructions and specifications. Information listed above reflects the criteria for our internal quality test and practical experience. Results depend on listed instructions and consumer skills and are therefore out of our responsibility whether expressed or implied. All values are valid for the product when dispatched from the plant. Technical data are generated under laboratory conditions, some variations are expected due to weather, site, and application conditions which are beyond the control of the manufacturer. We reserve the right to change any given specification without notice.