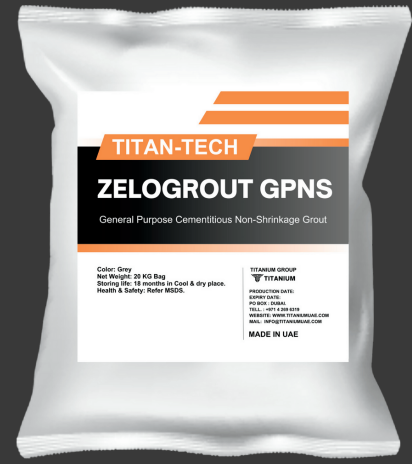


### ZELOGROUT GPNS

General purpose high flow non-shrink grout



# TECHNICAL DATA SHEET

## DESCRIPTION

- ZeloGrout GPNS is a non-shrink cementitious grouting solution that has been carefully developed to generate an excellent-performing, pourable grout with high strength and slightly expanding qualities. It is a combination of portland cement, gradated fillers, and chemical additives that entirely fills the void between base plates and foundations in a single application of grout for gap widths ranging from 10 to 50 mm. and cause controlled expansion in the plastic, which states that while reducing water consumption.
- ZeloGrout GPNS is nonmetallic, chloride-free, and shrinkage corrected to assure load transmission to foundations while developing outstanding compressive strength.

## PRODUCT FEATURES

- Compensation for free-flowing shrinkage and flexible uniformity.
- High bonds and high strength properties for a quick effect.
- The grout's toughness and non-shrinking properties allow for the greatest interaction with the wearing area.
- ZeloGrout GPNS can be utilized over plate and floor with a depth of up to 80mm.
- Waterproof and resistant to chemically threatening materials.
- The grout's non-shrink ability ensures maximum interaction with the load plate.

### **TYPICAL USES:**

- ZeloGrout GPNS is commonly used for grouting general purpose applications including column foundations, tie bolt holes, and joints between pre-cast shattered pieces but it may also be used as an anchoring grout for walkways, fences, and barriers.
- Heavy machinery and portable supports
- Flooring repairs and coverings
- Bedding support plates and grouting
- Prefabricated unit joints and cable grouting
- Anchoring of holding down bolts, hooks, and etc

### **DIRECTION OF USE:**

### **SURFACE PREPARATION:**

- The surface should be kept clean and free of dust, demolding chemicals, oil, paint, and other particles. Clean the grouting area with water 24 hours before grouting. The surface should be moist but free of excess water. The bolt holes and other locations should be clear of water, and the formwork should be leak resistant to leak.

### **MIXING:**

- Mix the pack with the required amount of water (4 to 5 litres for 20kg powder). A minimum of 5 minutes is required to get a smooth, consistent, lump-free appearance. To prevent air bubbles, pour the grout continually. 3 to 4 litres of water are required for a thick consistency. 2.5 to 3 litres of water is sufficient for dry packs.

### **APPLICATION INSTRUCTIONS:**

- Allow the ZeloGrout GPNS to flow just below the base plate after pouring it into the formwork tray. Continue to top up as needed to maintain continuous flow in a single operation, stop after the material has exited the formwork in the opposite direction. It starts at the bottom of the plate and works its way up to the desired finishing level. Remove the formwork once the grout has reached an initial set, and hopper, and complete the grout as needed. Alternatively, apply the prepared ZeloGrout GPNS mixture, compacting the surface with a steel trowel or wood float, and completely void to a minimum thickness of 10 mm.

### **HOT WEATHER CONDITIONS:**

- We propose the following rules for applications over 40°C:
- Unmixed ingredients should be stored in a cold, preferably air-conditioned location.
- Direct sunlight should be avoided for both mixed and unmixed materials.
- To combine, use iced water.
- Keep any equipment in touch with the product cold and out of direct sunlight.
- Avoid using it during the warmest part of the day.

### **CLEANING:**

- Tools should be cleaned with water after use.

### **PACKING & STORING:**

- ZeloGrout GPNS comes in 20 kg packages. Supply must be done in bulk custom designed containers for on-site applications or large consumption. ZeloGrout GPNS should be stored in warehouses that are cold, dry, and shaded. When stored without cover, out of direct sunlight, protected from severe temperatures, and in accordance with guidelines, the shelf life is 12 months. In severe hot climates, the product must be kept in a cold environment. High levels of moisture and heavy sunlight may reduce the shelf life.

### **HEALTH & SAFETY:**

- There are no harmful chemicals in ZeloGrout GPNS.
- Safety should always be maintained while using construction chemical products. While working with, safety clothing such as helmets and gloves must be used.
- For optimal protection, long-sleeved overalls, safety shoes, and a face mask are advised. After usage, reseal every package and store the product as directed on the label's safety section. Any contact with the skin or eyes should be treated quickly with fresh water. If any of the items are incorrectly consumed, avoid causing vomiting; instead, seek medical attention immediately. Please see the MSDS for each Titan-Tech product for additional information.

Mixing Water Ratio Table

Application	Consistency	Flow Table	Flow Cone	Water In liters/20kg bag MIN	Water In liters/20kg bag MAX
Grouting Machinery	Fluid	-	20-30	4	4.5
Grouting Machinery	Flowable	130	-	3	3.5
Bedding Precast	Plastic	60	-	2.5	3
Fillin Bar Void	Dry Pack	-	-	1.5	2

Compressive & Flexural Strength

	Compressive Strength	Compressive Strength	Flexural Strength
Days	Flowable N/mm2	Fluid N/mm2	Fluid N/mm2
1 day	40	20	4
3 days	58	35	6
7 days	68	45	8
28 days	80	60	9

## PROPERTIES

- Standard Confirms to: ASTM C579, ASTM C 580, BSEN 12390
- Color and Appearance: Grey Powder
- Density: 2.20(Fluid Consistency)
- Setting time:
- Initial: 4 hours@25oC
- Final: 8 hours@25oC