

PT GROUT

Neat, high performance, shrinkage compensated, post-tensioning grout. PT Grout is an unsanded, Portland cement based, expanding shrinkage compensated, post tensioning grout containing silica fume and other carefully selected components. PT Grout is pumpable, has enhanced flowability making it ideal for grouting post tensioning cables, tendons and other highly stressed steel cable applications.

FEATURES & BENEFITS

- Superior early strength gain, allowing early tensioning of anchors.
- Very fluid, easily pumpable, and exhibits little or no bleeding even when pumped under pressure.
- · Excellent cohesive properties.
- Net positive displacement (expansion) ensures maximum bond and protects against future water ingress.
- · Provides protection against corrosion.
- · Improved resistance to sulphate attack.
- Very low permeability.
- All KING products are manufactured using ISO 9001:2008 Certified Processes.

USES

- · Grouting pre-tensioned or post-tensioned cables or rods.
- For most other grouted anchor requirements including, cable bolting, earth tie-backs for excavation or soil stabilization, grouting anchors in tunnel support systems, re-bar grouting and grouting soil or rock tendons for anchoring piles or foundation structures.
- · Infill of pipe piles.

PROCEDURES

Surface Preparation:

All ducts, vents, inlets and outlets should be checked for obstruction by blowing dry, oil-free compressed air through each duct prior to grouting.

Mixing

A high speed colloidal mixer equipped with a calibrated measuring device for determining the quantity of water shall be used. Introduce potable water (see below) into mixer and then add PT G rout while operating at medium speed. The maximum recommended volume of water for a pumpable consistency is 10.0 litres (2.64 US gallons) per 30 kg (66 lb.) bag. Mix at high speed for a minimum of one minute. The time between mixing and pumping of the batch should not exceed 15 minutes.

TECHNICAL DATA

The following data is representative of typical values achievable under laboratory conditions. Results in the field may vary.

MACO DENOITY		
MASS DENSIT	ASTM C 109	1875 kg/m³ (117 lb./ft³)
COMPRESSIVE STRENGTH ASTM C 109		
	1 Day 3 Day	28 MPa (4060 psi) 40 MPa (5800 psi)
	7 Day 28 Day	45 MPa (6525 psi) 60 MPa (8700 psi)
EL OW	20 Day	00 MFa (0700 psi)
FLOW	ASTM C 942	10-15 seconds (0-15 minutes after mixing)
EXPANSION	ASTM C 940	3-5% (Volume unconfined)
BLEEDING	ASTM C 940	Nil
SEGREGATION		Nil

OPTIMUM PERFORMANCE

- Adhere to recommended water additions. Exceeding the maximum recommended water/material ratio will result in reduced compressive strengths and inferior physical properties.
- Surface temperature of the grouted area should be between 5 and 35°C (40 and 95°F).
- Do not use PT Grout if water/material temperature results in a flow of greater than 25 seconds.

YIELD

30 kg (66 lb.) bag contains approximately 0.020 m³ (0.7 ft³).

PACKAGING

PT Grout is packaged in 30 kg (66 lb.) triple lined bags and polywrapped on wooden pallets.

STORAGE AND SHELF LIFE

Material should be stored in a dry covered area protected from the elements. Unopened bags have a shelf life of 3 months.

SAFETY PROCEDURES

PT Grout contains Portland cement. Normal safety-wear such as rubber gloves, dust mask and safety glasses used to handle conventional cement based products should be worn. Material Safety Data Sheets are available upon request.



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Warranty: This product is designed to meet the performance specifications outlined in this product data sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties, representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade. [REV.0001_08/01/2014]