



SAINT-GOBAIN
PRODUCT DATA SHEET

webertec non shrink grout GP

General-purpose shrinkage-compensated cementitious grout

PRODUCT

webertec non shrink grout GP is a flowable and shrinkage-compensated grout for general purposes. **webertec non shrink grout GP** contains no chloride or other substances which could aggravate corrosion of reinforcing steel or pre-stressing steel cables. The product is designed for uniform mixing and minimising segregation and bleeding. **webertec non shrink grout GP** can be used for anchoring. It requires only the addition of water to produce an easily applied free-flowing grout. It can also be applied as a trowelable or dry pack material.

Uses

- Flowable and pumpable grouting
- Filling gaps of pre-cast and pre-stressed panels
- Grouting in columns
- Filling core holes, rod holes and defects in concrete
- Fill in grout for hollow block walls
- Concrete anchors, rail beds and machine foundation

Features and Benefits

- Formulated to comply with the Hong Kong Housing Authority Standards
- Manufacturing process and product conformity to HKCI PCCS
- The expansion system compensates for shrinkage and settlement whilst in the plastic state
- Can be dry-packed, rammed, trowelled, poured and pumped
- High early strength and long-term durability
- Fast setting: setting time less than 7 hours
- No metallic iron content to cause staining
- Chloride-free: prevents rusting of the steel and anchor bolts
- Pre-mixed and ready-to-use: requires only the addition of water

TECHNICAL DATA

Colour	Grey
Component	Portland cement, non-reactive aggregate, graded sand and other chemical additives
Nominal maximum agg. size	2.5 mm
Yield	Approx. 13.5L/25 kg bag for 19% water demand Approx. 74 bags/m ³
Density	2.2 kg/L (dry)
Pot life	Approx. 30 minutes
Thickness	20 – 150 mm
Coverage	Approx. 1.85 kg/m ² /mm

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PHYSICAL PROPERTIES

	Dry pack	Plastic	Fluid
Water demand	Approx. 14 – 15% (3.5 – 3.8 L/25 kg bag)	Approx. 16 – 17% (4 – 4.3 L/25 kg bag)	Approx. 19 – 20% (4.8 – 5 L/25 kg bag)
Yield	12.5 L	13 L	13.5 L
Age	Compressive strength (BS 6319: Pt 2, HKHA MTS(2002/2004) Spec. Part D, Cl. 2.1.1)		
1 day	30 N/mm ²	20 N/mm ²	15 N/mm ²
3 days	45 N/mm ²	35 N/mm ²	30 N/mm ²
7 days	55 N/mm ²	45 N/mm ²	40 N/mm ²
28 days	75 N/mm ²	70 N/mm ²	60 N/mm ²
Expansion at 24 hours	ASTM C 827		1 – 4 %
Expansion at 28 days	ASTM C 1090		0 – 0.4%
Flow of grout	ASTM C 939		< 35 seconds at 20% water demand
Setting time	ASTM C 953		< 8 hours
Bleeding	ASTM C 940		No bleeding
Bond strength at 7 days	BS 6319: Part 7		1.5 N/mm ²
Elastic modulus	CS1: 2010 Section 17		27.0 kN/mm ²
Chloride content	BS 1881: Part 124, CS1 Section 21		< 0.1%
Figg air permeability	HKHA MTS (2020/2022) Spec. Part D, Cl. 2.1.7)		> 200 seconds

Unless specified, all technical data are average values and refer to 28-day curing time.

The above physical data are taken from laboratory tests. In situ, material performance may vary according to environmental & workmanship conditions beyond the manufacturer's control.

Complied Standards

American Standard: ASTM C 827 (Free expansion within 24 hours),
ASTM C 1090 (Free expansion between 3-28 days),
ASTM C 939 (Flow cone method), ASTM C 953 (Setting time),
ASTM C 953 (Setting time)
ASTM C 940 (Bleeding)

British Standard: BS 6319: Part 2: 1983 (Compressive strength),
BS 6319: Part 7: 1984 (Bond strength)
BS 1881: Part 124: 1988 (Chloride content)

Hong Kong Standards: HKHA: MTS,
CS1: 2010

APPLICATION

Substrate Preparations

The surface of the substrate must be clean, sound and free from oil, grease, curing compounds or any loose materials.

Bolts and anchor holes must be clean and free from dust or loose material.

It is essential to pre-soak the concrete substrate with water before application of **webertec non shrink grout GP**. Excess water should be removed before grouting.

Mixing and Installation

Mix a bag of dry-mixed powder (25 kg) with the appropriate amount of water (depending on the application mode) by using an electrical mixer. For flowable grout, approx. 19 – 20% (4.8 – 5 L) of water is needed for fluid mode. For trowelling grout, approx. 16 – 17% (4 – 4.3 L) of water is required for plastic mode, while approximately. 14 – 15% (3.5 – 3.8 L) of water is required for dry pack mode.

To obtain the best expansion for dry-pack or plastic mode, 3-5 minutes of mixing is enough. To obtain the best flow for fluid mode, 7 – 9 minutes of mixing is needed.

Apply **webertec non shrink grout GP** within 30 minutes after mixing and under working conditions +5 °C.

webertec non shrink grout GP can be applied to a thickness of 20 – 150 mm in a single application. Please consult our technical department for any application thickness beyond 150mm. Do not use mechanical vibrators to assist flow, as this will cause segregation of the product. Machine mixing is recommended to achieve continuous mixing and application.

Please refer to our method statement for procedures in detail.

Curing

Upon completion of grouting, the exposed area should be covered with wet hessian or a plastic sheet to prevent excessive moisture loss.

STORAGE AND PACKING

webertec non shrink grout GP is delivered in a 25 kg bag. Storage life is 12 months if the product is kept in a dry place.

HEALTH AND SAFETY

Recommend wearing a NIOSH-approved or equivalent particulate face mask when mixing the material.

The material contains cement, which may produce an allergic reaction.

Material may cause irritation to the eyes and skin. In case of contact with the eyes, rinse immediately with plenty of water and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water.

Keep out of reach of children.

Please refer to the Material Safety Data Sheet (MSDS) for health, safety and handling of the product.

CLEANING & DISPOSAL OF WASTE

Cured material can be removed mechanically; if uncured, material can be removed with water. Dispose of waste in accordance with legislation.

* Note: The information and physical data in this catalogue are given to the best of our knowledge under standard testing methods and a controlled environment. The results may vary with different weather/site conditions, workmanship or substrates. This is beyond our control, and we shall not be liable for any faults or consequences arising from or associated with this. We suggest that comprehensive tests be conducted before the final application. Unless specified, all technical data are average values with a curing time of 28 days. We reserve the right to update or amend the contents in the light of new findings during the course of research and development.