REC GROUT 753

CEMENTITIOUS NON-SHRINK PRECISION GROUT

DESCRIPTION

REC GROUT 753 is a ready-to-use, free-flow precision grout made from sand, special cement, and additives to provide easy handling and high performance, with no bleeding and zero shrinkage.

SCOPE OF USE

- Concrete jacketing for slabs, columns, beams, and footings.
- Void-filling applications.
- Filling of shutter tie-rod openings.
- Jointing and bedding of precast elements.
- Jointing of formwork.
- Concrete surface reprofiling.
- Bedding under industrial equipment and heavy machinery mounting plates.

KEY FEATURES

- Highly fluid.
- Chloride- and hydrogen-free.
- High early mechanical resistance.
- Good resistance to chlorides and sulfates.
- Easy application.
- Excellent resistance to vibration and shock loads.
- Pumpable.
- Expansive.

TECHNICAL INFORMATION

Appearance	Grey powder	
Grain size	0–1 mm	
Wet density	2.15–2.25 kg/m³	
Mixing water	17%–18%	
Initial setting time	255 minutes	
Final setting time	325 minutes	
Free from chlorides and metallic particles	Yes	
Flexural strength	≥10 MPa @ 28 days (BS EN 196-1)	
Compressive Strength (N/mm²) – ASTM C579	1 day	≥27
	3 days	≥50
	7 days	≥60

NOTE: Results may vary due to statistical variations and differences in mixing methods and equipment, temperature, application methods, test methods, actual site conditions, and curing conditions.

APPLICABLE STANDARD

REC GROUT 753 fully complies with ASTM C1107.

DIRECTIONS FOR USE

SUBSTRATE PREPARATION

The concrete should have cured for at least 28 days. The substrate must be clean and free from all loose particles, dust, cement laitance, rust, oil, and other contaminants. The minimum concrete compressive strength required should be 45 MPa. The substrate must not contain more than 6% moisture.

PRODUCT PREPARATION

The grout is obtained by mixing 25 kg of **REC GROUT 753** with 4 to 4.5 litres of water. Add the powder gradually to the water and mix for 3 minutes. To ensure a homogeneous and uniform mix, an electric mixer must be used. Do not mix with other hydraulic binders. The use of additives is absolutely prohibited. The ideal application temperature is between +4°C and +35°C. If the application temperature is higher than 35°C, use cool water to keep the temperature of the mixed grout below 30°C.

MIXING REQUIREMENTS

Consistency	REC GROUT 753	Water	3/8 Aggregates	Volume in Place
Fluid consistency	25 kg	4.25–4.5 L	0	13 L
Plastic consistency	25 kg	3.5–3.75 L	0	13 L
Micro-concrete	25 kg	3.75–3.87 L	10 kg	—

PRODUCT APPLICATION

Clean the concrete substrate or the area between the forms. Pour **REC GROUT 753** continuously in one direction to avoid air pockets. The maximum grouting thickness per layer is 6 cm**. REC GROUT 753** can be used for jacketing. The existing surface needs to be roughened and cleaned. For bedding of precast panels, construct a solid, leak-proof formwork. Saturate the concrete substrate with water for at least a few hours before pouring and remove all residual water before application.

CURING

Once the grout starts to set, it should be cured either by using a curing compound such as **Rec Cure E-4** or by covering it with properly sealed plastic sheeting. If the configuration and tightness of the forms allow, pour 1 to 2 cm of cool water over the surface and maintain it until the forms are struck.

YIELD

12.5 to 14 litres per 25 kg bag, depending on consistency.

PACKAGING

REC GROUT 753 is supplied in various packaging sizes and quantity of the product varies with the demand of clients .

STORAGE

Shelf life is 12 months from the date of manufacture when stored in the original, unopened packaging, under cover, in dry conditions, away from humidity, and protected from extreme temperatures and direct sunlight.

SAFETY PRECAUTIONS

While using the product, gloves, a mask, and safety goggles should be worn. Splashes on the skin or in the eyes should be washed immediately with clean water. In case of prolonged irritation, seek medical advice.

QUALITY STATEMENT

All our products are manufactured to comply with our internal quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's head office located in Lahore.

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