REC GROUT 746

HIGHLY FLUID NON-SHRINK CEMENTITIOUS GROUT

DESCRIPTION

REC GROUT 746 is a ready-to-use, free-flow precision grout made from sand, special cement, and additives to provide outstanding performance in terms of volume stability, flow, and physical properties.

SCOPE OF USE

- Filling of shutter tie-rod openings.
- Void-filling applications.
- Concrete re-profiling.

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.

TECHNICAL INFORMATION

Appearance		Grey powder	
Grain Size		0–1 mm	
Wet density		2.15–2.25 kg/m³	
Chlorides And Metallic Particles		NIL	
Mixing water		17%–18% (4.25–4.5 liters of water per 25 kg powder)	
Initial setting time		255 minutes	
Final setting time		355 minutes	
Tensile Strength (BS 6319: Part 7: 1985)		4 N/mm² at 28 days	
Application Temperature		+5°C to +35°C	
Flexural Strength (BS EN 196-1) (N/mm²)		7 Days	8
		28 Days	>10
Compressive Strength (BS EN 12190) (N/mm²)	1 Day	>25	
	7 Days	>45	
	28 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

ASTM C1107

DIRECTIONS FOR USE

MORTAR PREPARATION

The slurry or mortar is obtained by mixing **REC GROUT 746** with water. The amount of water used varies according to the required workability. Add the powder 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 strictly prohibited. If the application temperature is higher than 35°C, use cool water to keep the mixed grout temperature below 30°C.

MIXING REQUIREMENTS

Consistency	**REC GROUT 746**	Water	Volume in Place
Plastic consistency	25 kg	3.5–3.75 liters	12.5 L
Fluid consistency	25 kg	4.25–4.5 liters	13 L

GROUTING

Build solid, leak-proof formwork. Saturate the concrete substrate with water for at least a few hours prior to pouring. Remove all residual water before application. Pour **REC GROUT 746** continuously in one direction to avoid air pockets. The choice of installation method depends on the grouting thickness and the length of the gap. The grout can be applied up to a thickness of 5 cm. Gaps with a thickness of up to 10 cm can be filled in several layers, depending on the geometry and level of steel reinforcement. Once the grout starts to set, it should be cured either with a curing compound or, if the configuration and tightness of the forms allow, by pouring 1 to 2 cm of cool water over the surface and maintaining it until the forms are struck.

CURING

Protect the work against rapid drying caused by wind, sun, and excessive heat by using a curing compound such as Rec Cure E-4 or by covering the work with properly sealed plastic sheeting.

YIELD

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

PACKAGING

REC GROUT 746 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.

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