REC GROUT 741

HIGHLY FLUID EXPANSIVE BEDDING GROUT

DESCRIPTION

REC GROUT 741 is a ready-to-use grout made of sand, special cement, and additives that provides unique features.

PRIMARY APPLICATIONS

- Grouting industrial equipment, heavy machinery, and mounting plates.
- Bedding industrial equipment, construction posts, and bars.
- Anchoring a wide range of fixings.
- Assembly of precast parts made of reinforced or prestressed concrete.
- Vertical shoring.
- Filling shutter tie-rod openings.
- Concrete jacketing for slabs, columns, beams, and footings.
- Re blocking, restumping, and void-filling applications.
- Closing or filling around pipes in water tanks and swimming pools.
- Pumpable applications.
- Applications requiring high early mechanical strength.
- Applications requiring good resistance to seawater and sulfate water.
- Easy-application grouting.
- Applications requiring excellent resistance to vibration and shock loads.

FEATURES/BENEFITS

- Expansive
- Highly fluid

TECHNICAL INFORMATION

Appearance	Grey powder
Grain size	0–3 mm
Density	1.45
Expansion (ASTM C940)	Up to 3%
Chloride permeability (ASTM C1202)	Low
Water absorption (BS 1881 Part 122)	<2%
Chlorides and metallic particles	Free from
Fresh density (ASTM C185-02, Section 5.2)	2.33
VOC and formaldehyde content (ISO/FDIS 11890-2 / GC-MS)	None (<10 µg/L)
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)		Fluid Consistency
	7 Days	>6
Compressive Strength (BS EN 12190) (N/mm²)	1 Day	20
	7 Days	40
	28 Days	60

NOTE: Results obtained at a 10% water ratio under laboratory conditions at 22°C ± 1°C. The properties listed above are based only on controlled laboratory samples and tests. Results may differ due to statistical variations depending on mixing methods and equipment, temperature, application methods, test methods, actual site conditions, and curing conditions.

APPLICABLE STANDARD

BS 1881 Part 122, EN 196-1, EN 12190, ASTM C1107, ASTM C1202, ASTM C940:89, ASTM C185-02.

DIRECTIONS FOR USE

SUBSTRATE PREPARATION

REC GROUT 741 may be applied to sound concrete, masonry, rock, or similar substrates. Remove damaged concrete and laitance by chipping with a pick or cold chisel to obtain a rough and sound surface. The surface must be free from all traces of grease, oil, dust, and other contaminants. Saturate the surface thoroughly with water by copious spraying immediately before application and, where possible, approximately 6 hours before application. Remove any standing or excess water before placing the grout.

PRODUCT PREPARATION

The slurry or grout is obtained by mixing **REC GROUT 741** 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 mixture, an electric mixer must be used. At the appropriate proportions, **REC GROUT 741** may be used as a micro-concrete by mixing it with clean, water-saturated 3/8-inch aggregate to achieve a plastic consistency. Do not mix with other hydraulic binders. The use of additives is strictly prohibited. The ideal application temperature is between +5°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 741**	Water Required
Mortar	50 kg	3-4 liters
Grout	50 kg	4-5 liters
Micro-concrete	50 kg + 20 Liters of 3/8-inch aggregate	5 Liters

BEDDING

Thoroughly scabble the foundation and clean the area between the foundation and machine base plate, as well as the anchor holes. Build solid, leak-proof formwork. Saturate the concrete foundation with water for at least a few hours before pouring. Remove all residual water before application. Pour **REC GROUT 741** continuously in one direction to avoid air pockets. Application may be carried out by gravity, loading, pumping, or injection. The choice of installation method depends on the grouting thickness and the length of the machine. The grouting thickness

should be between 3 and 6 cm when using pure mortar. Larger thicknesses may be filled using micro-concrete with the addition of 3/8-inch aggregate. Once the mortar starts to set, apply either:

- A suitable curing compound; or
- If the configuration and tightness of the formwork permit, pour 1–2 cm of cool water over the surface and leave it there until the formwork is removed.

FOR JACKETING AND REPAIR

REC GROUT 741 can be applied at thicknesses of up to 10 cm. The existing surface must be roughened and thoroughly cleaned before application. Dampen the surface with water before placing the grout and remove any standing water. The recommended application temperature is between +5°C and +35°C.

FOR SHORING AND SOIL-NAILING APPLICATIONS

REC GROUT 741 can be used for grouting inclined holes in shoring applications. The hole diameter should not exceed 20 cm. The required hole depth must be determined by the structural engineer based on the project requirements. The high fluidity and non-shrink properties of **REC GROUT 741** provide excellent anchoring and friction with soil and rock. If the application temperature is above 35°C, use cool water to keep the mixed grout temperature below 30°C.

CURING

Protect the applied grout against rapid drying caused by wind, direct sunlight, and excessive heat. Curing may be carried out using a suitable curing compound such as REC CURE E-4, or by covering the applied grout with properly secured plastic sheeting.

PACKAGING

REC GROUT 741 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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