REC GROUT 735

NON-SHRINK VERY HIGH-STRENGTH GROUT

DESCRIPTION

REC GROUT 735 is a blend of Portland cement, special admixtures, and proprietary aggregates designed to provide high flexural and compressive strength performance in both plastic and fluid consistencies. **REC GROUT 735** is non-metallic, non-shrink, non-gas-forming, and contains no chlorides or aluminum powders. It is specially formulated for applications requiring the repair of high-strength concrete.

PRIMARY APPLICATIONS

- Assembly of precast parts made of reinforced or prestressed concrete.
- Bridge bearing applications.
- Concrete jacketing for slabs, columns, beams, and footings.
- Re blocking, restumping, and void-filling applications.
- Filling and closing around pipes in water tanks and swimming pools.
- Anchoring of steel bars.
- Jointing applications.
- Fixing industrial equipment and heavy machinery, including mounting plates.
- Vertical shoring.
- Void-filling operations.
- Pumping applications.
- Applications requiring excellent resistance to shock and vibration.

FEATURES/BENEFITS

- Non-shrinking.
- High strength.
- Easy to apply.
- Resistant to seawater and sulfates.
- Available in fluid or plastic consistency.
- Excellent resistance to shock and vibration.
- Suitable for pumping applications.
- Non-metallic.
- Non-gas-forming.
- Free from chlorides and aluminum powder.

TECHNICAL INFORMATION

Appearance	Grey powder
Grain Size	0–4.75 mm
Chlorides And Metallic Particles	NIL
Fresh density	2340 kg/m³ (BS 1881: Part 83)
Length change	<0.05% @ 28 days (ASTM C157-03)
Pull-off strength	>1.5 N/mm² @ 28 days (BS 1881: Part 207)

Tensile Strength (BS 6319: Part 7: 1985)	3.8 N/mm² at 28 days
Application Temperature	+5°C to +35°C
Flexural Strength (BS EN 196-1) (N/mm²)	7

NOTE: The above results were obtained at fluid consistency using 13.5% water, equivalent to 6.75 liters per 50 kg bag. The mechanical characteristics are expected to be higher when **REC GROUT 735** is mixed at plastic consistency, using 11% water, equivalent to 5.5 liters per 50 kg bag. Under these conditions, the compressive strength can exceed 80 MPa at 28 days.

APPLICABLE STANDARD

BS EN 196-1, BS 1881: Part 207, ASTM C157-03, BS 6319: Part 7:1985, BS 1881: Part 83, ASTM C1107.

DIRECTIONS FOR USE

SUBSTRATE PREPARATION

REC GROUT 735 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

REC GROUT 735 can be prepared as either grout or mortar by mixing the powder with clean water. The quantity of water required depends on the desired workability and consistency. Add the powder gradually to the required quantity of water and mix for approximately 3 minutes. To obtain a homogeneous and uniform mixture, an electric mixer should be used. Do not mix with other hydraulic binders.

MIXING REQUIREMENTS

Consistency	**REC GROUT 735**	Water Required	Approx. Volume in Place
Plastic consistency	50 kg	5.5 liters	Approx. 26 liters
Fluid consistency	50 kg	6.25–6.75 liters	Approx. 28 liters

Note: Approximately double the quantity of water is required for a 50 kg package.

FOR JACKETING AND REPAIR

REC GROUT 735 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 735 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 735** 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 735 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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