RECKON CHEMICALS (PVT) LTD.

REC GROUT 733

NON-SHRINK STRUCTURAL GROUT

DESCRIPTION

REC GROUT 733 is a ready-to-use cementitious grout made from selected aggregates, special cement, and additives. It is designed for applications where high compressive strength is required. **REC GROUT 733** is specially formulated to produce a shrinkage-compensating grout with excellent adhesion, high strength, and resistance to shock and vibration.

PRIMARY APPLICATIONS

- Filling of shutter tie-rod holes and openings.
- 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.
- Pile head repair.
- Shoring and soil-nailing applications.

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.

TECHNICAL INFORMATION

Appearance		Grey powder	
Grain Size		0–4.75 mm	
Chlorides And Metallic Particles		NIL	
pH		12	
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) 28 Days		Fluid Consistency	Plastic Consistency
		7	8
Compressive Strength (BS EN 12190) (N/mm²)	28 Days	50	60

NOTE: The higher the curing temperature, the higher the strength achieved at 24 hours. The fluid-consistency results were obtained using 3.5 liters of water per 25 kg bag. The properties listed above are based on controlled laboratory samples and tests. 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, ASTM C1202, BS EN 12190, ASTM C348, ASTM C1107.

DIRECTIONS FOR USE

SUBSTRATE PREPARATION

REC GROUT 733 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 733 is prepared by mixing the grout powder with clean water. The amount 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. The use of additional additives is prohibited.

MIXING REQUIREMENTS

Consistency	**REC GROUT 733**	Water Required	Approx. Volume in Place
Fluid consistency	25 kg	3- 3.25 liters	Approx. 13 liters

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

FOR JACKETING AND REPAIR

REC GROUT 733 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 733 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 733** 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 733 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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