

REC GROUT 743

HIGHLY FLUID POST-TENSIONING GROUT

DESCRIPTION

REC GROUT 743 is a ready-to-use, free-flowing, blended cementitious powder. It requires only the addition of water in a high-shear mixer to produce a free-flowing grout. **REC GROUT 743** is a high-strength, highly fluid, controlled-expansion grout with superior dynamic-load stability. It has been designed for grouting post-tensioning cables and a wide range of other anchoring systems. **REC GROUT 743** provides corrosion protection for highly stressed steel cables, rods, and many other systems. The unique shrinkage-compensating system in **REC GROUT 743** provides controlled positive expansion in all directions. The positive expansion of **REC GROUT 743** remains constant throughout the life of the grout.

PRIMARY APPLICATIONS

- Grouting post-tensioning cables.
- Bedding industrial equipment.
- Shoring applications.
- Anchoring applications.
- Overhead repair and injection applications.
- Re blocking, restumping, and void-filling applications.
- Closing or filling around pipes in water tanks and swimming pools.

FEATURES/BENEFITS

- High early strength.
- Non-shrink; the unique expansion system compensates for shrinkage.
- Excellent pumpability.
- Economical, with high strength gain at significantly lower cost compared with resin grouts.
- Durable; high ultimate strength and low porosity ensure long-term performance.
- Does not contain metallic iron, eliminating the risk of corrosion or deterioration due to rust expansion within the grout.
- Good resistance to vibration and shock loads.

TECHNICAL INFORMATION

Appearance	Grey powder
Composition	Specific Additives
Density	2
Expansion (ASTM C940)	1-5%
Chloride Content (ASTM C1202)	NIL
Application Temperature	+5°C to +35°C
Compressive Strength (BS EN 12190) (N/mm ²)	50 MPa at 28 days

APPLICABLE STANDARD

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

DIRECTIONS FOR USE

MIXING

Mix 20 kg of **REC GROUT 743** with 6 to 6.8 liters of cool potable water. Depending on the quantity to be prepared, a drill and paddle may be used for small applications. For larger applications, use a high-shear mixer followed by a slow-speed agitator. Place most, but not all, of the required water into the mixer. Start the mixer and slowly add **REC GROUT 743**. After all lumps have disappeared, add the remaining water. Continue mixing for a total of 3 to 5 minutes, or until a uniform consistency is obtained. Mix only the amount of grout that can be placed within 20 to 30 minutes. Do not mix by hand. If the application temperature is higher than 35°C, use cool water to keep the temperature of the mixed grout below 30°C.

PLACING

Place **REC GROUT 743** in accordance with the applicable guide specification for post-tensioning structures. Contact the technical department OF RECKON CHEMICALS PVT LTD. for further details.

FOR CONCRETE GROUTING, JACKETING, AND REPAIR

REC GROUT 743 can be used for applications with thicknesses of up to 2 cm. The existing surface should be roughened and thoroughly cleaned. Ensure that the surface is dampened with water before application.

PACKAGING

REC GROUT 743 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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