

REC GROUT 744

HIGHLY FLUID POST-TENSIONING GROUT WITH LOW CHLORIDE ION PENETRATION

DESCRIPTION

REC GROUT 744 is a ready-to-use, free-flowing, non-shrink cementitious grout. It requires only the addition of water in a high-shear mixer to produce a free-flowing grout. **REC GROUT 744** is a high-strength, low-RCP, 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 744** provides corrosion protection for highly stressed steel cables and rods. The positive expansion of **REC GROUT 744** remains constant throughout the life of the grout.

SCOPE OF USE

- Grouting post-tensioning cables.
- Shoring applications.
- Void-filling applications.

FEATURES/BENEFITS

- High strength
- Non-shrink
- Highly fluid
- Low rapid chloride permeability (RCP)
- No bleeding or settlement

TECHNICAL INFORMATION

Appearance	Grey powder
Chloride content	<0.1%
Density	2 ± 0.05 kg/L
Compressive Strength at 1 day	>10 N/mm ² — BS EN 445
Compressive Strength at 7 days	>45 N/mm ² — BS EN 445
Compressive Strength at 28 days	>60 N/mm ² — BS EN 445
Fluidity — Marsh Cone, immediately after mixing	19–25 seconds
Fluidity — Marsh Cone, after 30 minutes from initial mixing	<25 seconds
Volume Expansion	<2% — ASTM C940
Volume Change	<2% — BS EN 445
Change in Height at 1 day	0 to 0.2% — ASTM C1090
Change in Height at 28 days	0 to 0.2% — ASTM C1090
Bleeding at 3 hours	Nil — BS EN 445

Chloride Ion Penetration	Low at 28 days @ 30 V — ASTM C1202
Initial Setting Time	9 ± 1 hours — EN 447

APPLICABLE STANDARD

REC GROUT 744 complies with EN 447.

DIRECTIONS FOR USE

MIXING

Mix 20 kg of **REC GROUT 744** with 6.4 to 6.6 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 operating at less than 300 rpm. Place most, but not all, of the required water into the mixer. Start the mixer and slowly add **REC GROUT 744** while continuing to mix. After all lumps have disappeared, add the remaining water. Continue mixing for a total of 3 to 5 minutes, until a uniform consistency is obtained. Mix only the amount of grout that can be placed within 20 to 30 minutes, depending on site conditions. Do not mix by hand. 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.

PLACING

Place **REC GROUT 744** in accordance with the applicable guide specification for post-tensioning structures. Contact the technical department OF RECKON CHEMICALS PVT LTD. for further details.

PACKAGING

REC GROUT 744 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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