

REC GROUT 744

Highly fluid post-tensioning grout with low chloride ion penetration

PRODUCT

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 high strength, low RCP and controlled expansive grout with superior dynamic load stability. It has been designed for grouting post tension cable and a wide range of other anchoring systems. **Rec Grout 744** provides corrosion protection for highly stressed steel cables, rods. The positive expansion of **Rec Grout 744** remains constant throughout the life of the grout.

SCOPE OF USE

- Grouting Post tension cables
- Shoring application
- Void filling applications

PROPERTIES

- High strength
- Non shrink
- Highly fluid
- Low RCP
- No bleeding and settlement

CHARACTERISTICS

Appearance	Grey powder
Chloride content	<0.1%
Density	2 ± 0.05 kg/l
Compressive Strength 1 day - BS EN 445	>10 N/mm ²
Compressive strength 7 days - BS EN 445	>45 N/mm ²
Compressive Strength 28 days - BS EN 445	>60 N/mm ²
Fluidity (Marsh cone) BS EN 445	
-Immediately after mixing	19-25 Sec
-After 30 Min from initial mixing	<25 Sec
Volume expansion ASTM C 940	< 2%
Volume change BS EN 445	< 2%
Change in height ASTM C 1090	1 day: 0 to 0.2% 28 days: 0 to 0.2%
Bleeding at 3 hours BS EN 445	Nil
Chloride ion penetration at 28 days @ 30 V ASTM C 1202	Low
Initial setting time EN 447	9 ± 1 hr

* water used is 6.4 to 6.6 Liters per bag

APPLICABLE STANDARDS

Comply to EN 447.

INSTRUCTIONS FOR USE

Mixing

Mix 20 kg **Rec Grout 744** with 6.4 to 6.6 lit. of cool potable water. Depending on the quantities to be prepared, a drill and paddle can be used for small applications or a high shear mixer (less than 300 RPM) for large applications, place into the mixer most but not all of the required water. Start the mixer, then slowly add **Rec Grout 744** and continue mixing. After all lumps have disappeared, add remaining water. Continue to mix for a total of 3 to 5 minutes until a uniform consistency is obtained. Mix only the amount of grout that can be placed in 20 to 30 minutes (depending on the site condition). Do not mix by hand. Ideal application temperature is between + 5°C and + 35°C. If the application temperature is higher than 35°C, make sure to use cool water to keep the mixed grout temperature below 30°C.

Placing

Place the **Rec Grout 744** in accordance with guide specification for post-tensioning structures. Contact our technical department for more details.

STORAGE

In original and non-open packaging, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight. Preferably to be consumed before 6 months from date of production.

SAFETY PRECAUTIONS

Preferably to be consumed before 6 months from production date. The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention. The product is non-flammable.



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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, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

NOTE

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