

REC GROUT 751

HIGH-STRENGTH FLOWABLE EPOXY RESIN GROUT

DESCRIPTION

REC GROUT 751 is a three-component, high-flow epoxy grout consisting of resin, hardener, and specific fillers. The combination of these components provides a highly resistant, waterproof, and non-shrink resin grout. **REC GROUT 751** is particularly recommended for grouting and bedding applications where a fluid consistency is required. It has excellent shock and vibration resistance, making it suitable for withstanding dynamic loads.

SCOPE OF USE

- Concrete repair.
- Vertical anchoring of metal elements.
- Bedding of machine bases or bridge bearing plates.
- Protection of concrete floors subjected to heavy mechanical and chemical exposure.
- Pile cap repair, designed to encapsulate pile tops.

KEY FEATURES

- Non-shrinking.
- Durable.
- Low water absorption.
- Low RCP.
- High strength.
- Easy to apply.
- Resistant to seawater and sulfates.
- Excellent resistance to vibration and shock loads.

TECHNICAL INFORMATION

Standard color (mixture)	Grey	
Solid content	100%	
Pot life	1 hour @ 25°C	
Setting time	6 hours @ 25°C	
Fresh density	Approximately 2 ± 0.05 kg/L	
Resistance to foot traffic	After 24 hours	
Full curing	7 days	
Compressive Strength (N/mm ²) – ASTM C579	1 day	55 ± 5
	3 days	85 ± 5
	7 days	95 ± 5
Chemical resistance	Common diluted acids and alkalis, distilled water, oil, kerosene, and seawater	

NOTE: 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

BS 1881: Part 122:1983, ASTM C403/C403M-05, ASTM C1202-09, ASTM C138:01

DIRECTIONS FOR USE

SUBSTRATE PREPARATION

The concrete should have cured for at least 28 days. The substrate must be clean and free from all loose particles, dust, cement laitance, rust, oil, and other contaminants. The minimum concrete compressive strength required should be 45 MPa. The substrate must not contain more than 6% moisture.

PRODUCT PREPARATION

Before application, the resin and hardener components should be carefully mixed using a slowly rotating electric drill fitted with a paddle. To complete the mixing process, progressively pour the resin from one container into another and mix again. The mineral filler should then be mixed with the binding resin using a forced-action mixer. Add the mineral filler progressively while mixing until a homogeneous consistency is obtained. Add the entire quantity of filler to the epoxy.

PRODUCT APPLICATION

The grout should be leveled with a trowel. The permissible application thickness is 5 mm to 450 mm, ensuring that no bleeding occurs due to site conditions, temperature, or improper mixing. Do not add water or solvent to the mixture. The product can be applied at an ambient temperature ranging from 8°C to 45°C. Relative ambient humidity should be ≤ 85%.

Note: As with any epoxy product, consistency, pot life, and setting time will vary with temperature.

RECOMMENDATION

Prior to **REC GROUT 751** application, and as recommended by **API Practice 686**: Expansion joints should be provided with a width of **12 to 25 mm**, using closed-cell polyethylene filler, and placed at intervals of **1.4 to 2.8 m** in the grout foundation. Expansion joints require sealing after the grout has cured.

CONSUMPTION

2 kg/m²/mm.

PACKAGING

REC GROUT 751 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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