



EP 310

2 Component Polyester Resin Anchoring Grout

Pack Size
1Kg

TDS Technical Data Sheet



Product Description

EP 310 is a specialized anchoring grout formulated to provide exceptional durability and anchoring properties. Designed to deliver superior strength, this anchoring grout surpasses the concrete in robustness. It is ideal for anchoring reinforcing bars, dowels, holding down bolts, as well as bedding, jointing, and re-profiling concrete. EP 310 is suitable for applications where the hole and bar diameter is less than or equal to 25 mm and for repairing larger voids where rapid strength gain is required.

Features

Shrink-free Excellent strength Vibration resistance Resistance to heavy loads Corrosion resistance Easy to apply

Surface Preparation

The substrate must be hard, sound, and free of dust and other materials that could hinder adhesion, such as paint, lime coatings, plaster, curing agents, laitance, and adhesive residues. Use a suitable degreaser to remove polish, wax, grease, oil, and similar contaminants before applying EP 310. Joints or cracks in the substrate where differential movement is anticipated, such as movement joints, should be brought through to the finished surface.

Mixing

Thoroughly stir the contents of EP 310 Part A before mixing with Part B. Pour the entire contents of Part A into a larger mixing vessel to accommodate Part B. Mix thoroughly for one minute using forced action. After ensuring a smooth mix, add Part B to the same container and continue mixing for an additional two minutes to create a consistent, homogeneous mixture.

Application

Pour the mixed material onto the prepared substrate without delay. Fix the bar into the hole immediately after pouring the grout, ensuring full contact of grout to the bar with a slight twisting action to maximize bonding. Avoid overworking the surface and do not mix more than can be used within the working time. Protect the work area during the installation process and initial curing time to prevent airborne debris from contaminating the surface of the wet resin. All movement joints in the substrate must be carried through the EP 310 and properly sealed.

Limitations

EP 310 should be applied at temperatures above 10°C. The substrates should be dry and free from rising damp. Concrete or other cementitious substrates should have a surface tensile strength of at least 1.5 N/mm². Although EP 310 may be applied to substrates of lower strength, long-term performance may be compromised. Once the mixed material exceeds its pot life, its viscosity and characteristics will change, and any unused product should be discarded.

Cleaning

EP 310 can be removed from tools and equipment using CLI-N18 immediately after use. Any hardened material must be removed mechanically.

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EP-310

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Physical Properties

EP 310 @27±1°C

Pot Life	50 minutes
Mixed material density	1.85 - 1.90 g/cc
Full Cure	7 days
Compressive Strength (BS 6319-Part-2)	8 Hours: >40 N/mm ² 1 day: >55 N/mm ² 7 days: >75 N/mm ²
Pack Size	1 kg and 4 kg packs 1 kg: Part A: 250 g, Part B: 750 g 4 kg: Part A: 1 kg, Part B: 3 kg

Yield

Allowance should be made for wastage when estimating quantities required. The approximate yield per 4.0 kg pack is 2 liters.

Storage and Shelf Life

EP 310 has a shelf life of 6 months if stored in a dry place between 5°C and 30°C in the original unopened containers. The product should be protected from frost, direct sunlight, and sources of heat.

Precautions

During mixing and application, ensure adequate ventilation and avoid contact with eyes, nasal passages, mouth, and unprotected skin. Avoid contact with the hands by wearing protective gloves and, if necessary, using a suitable barrier cream. In case of eye contact, rinse immediately with plenty of water and seek medical advice. In case of skin contact, wash immediately with soap and water. Prolonged skin contact should be avoided, especially if the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection when necessary. Observe personal hygiene, particularly washing hands after work is completed or during interruptions. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents, seek medical advice.

Disposal/Spillage

Spillage of any component should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations

Pack Size

1Kg



Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.