Grout EP 8500

High Strength, High Impact Resistance Three Component, Epoxy Grouting System

Product Description

Grout EP 8500 is a three-component, multi purpose, moisture tolerant, fluid. Anchorage filling, repairing and graiding mortar epoxy grouting system. It can be applied on concrete, stone, mortar, asbestos cement, aluminum, steel, wood, polyster and epoxy based materials.

Areas of Application

- Precision seating of baseplates.
- Filling and repairing of hallows cracks and fractures for anchorage works.
- Grouting under equipment, including heavy impact and vibratory machinery, reciprocating engines, compressors, pumps, presses, etc.
- Leveling of slab floor final before the final coating.
- Grouting under crane rails.
- Repairing and plastering of walls and ceilings.
- Repairs of corner and edges.
- Fixing of the industrial machines on the foundations.

Advantages

- Resistant to dynamic loading.
- Low peak exothermic.
- High compressive, tensile and shear strengths.
- Non-shrink under continuous loading.
- Low creep characteristics under continuous loading.
- Low dusting, ready-to-mix, pre-proportioned kits.
- Resistant to water and weather conditions.
- Corrosion and impact resistant.
- Excellent bond to concrete and steel surfaces.
- Stress and chemical resistance.
- Low coefficient of thermal expansion; compatible with concrete.

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Thickness and size limitation

Grout EP 8500 is designed for use even in narrow gaps under baseplates and / or where the baseplates are large to effectively transfer all static and dynamic loads to the equipment foundation even at elevated service temperatures.
Grout EP 8500 is suitable for grouting large gaps up to 50mm.
Grout EP 8500, the minimum pour thickness can be as low as 10mm in many applications.

Application Instructions

The surfaces must be clean, smooth, solid, free from any anti adhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The concrete floor should not have water accumulation, humidity and humidity. it should be a dry floor and the concrete surface moisture should be below 4%. High pressure water should be prepared by cleaning with suitable mechanical surface preparation techniques such as jetting, roughening,sandblasting.
Pour component B into component A. Mix with a low speed electric stirrer until the mixture reaches a completely homogeneous appearance. Then pour the mixture into a suitable container and slowly and continuously add component C, continue mixing for at least 3 minutes until a homogeneous and smooth mortar is obtained.
The prepared mixture should be placed in 5 minutes depending on the air temperature and the amount of water. Grout EP 8500 should be poured from one side in order to fill under the gaps surrounded by four sides and covered. So it discharges air and prevents gaps.

Application Notes/ Restrictions

* During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and mask should be used.
* It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +40°C}, rain and frost.
* Hands and areas of contact with the skin and hands should be cleaned with water before the product is completely cured and hardened.
* In case of contact with eyes, wash eyes with warm water and detergent then a doctor should be consulted.
* It should not be forgotten that the strength and adhesion values of the product will change if the mixing ratios are changed. .

Consumptions

2.3 kg/m^2 (for 1 mm thickness)

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Packaging

Grout EP 8500 is available in 30Kg set.

Shelf life:

Grout EP 8500 can be stored in tightly closed original containers for 12 months in controlled environments.

Technical Data

Property:	
Appearance/Color	A Component, yellowish, liquid B Component, light yellow, liquid C Component, grey, powder Mixture, concrete grey, liquid
Mixture Ratio	2 Unit A, 1 Unit B, 15 Unit C (by weight)
Pot Life	30 minutes
Application Temperature	(+5 °C) - (+40°C)
Shore	D60 - 70
Initial Drying Time	24 hours
Wear Resistance (A+B+C)	ASTM D 4060 CS10, 1000 DEV, 1000 GR 75 MG
Compressive Strength	≥ 75 MPa
Flexural Strength	≥ 30 MPa
Bond Strength	> 3.5 MPa (Rupture from Concrete) / > 4 MPa (for steel)
Tensile Strength	> 30 MPa
Technical data are approximate values obtained from the laboratory study of Chelfix Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.	

Curing

Grout EP 8500 is self-curing.

Cleaning

After the application and finishing all tools should be cleaned immediately using a suitable thinner. Hardened materials should be cleaned mechanically.