

SEALBOND 518-FE

FAST SETTING EPOXY GROUT

Product Description

SEALBOND FAST SETTING EPOXY GROUT (518-FE) is 100% solids epoxy resin, especially formulated for grouting applications with high mechanical and adhesive strength. It has a lower to medium viscosity which cure to a material superior to concrete in tensile strength, compressive strength, and chemical resistance. It is primarily designed for fast tract projects, formulated to have a faster setting time without sacrificing quality and its distinctive properties.

Application Areas

- used to secure reinforcing rods, and tie rods
- used for anchoring bolts of equipment
- used for setting or installing heavy machinery, building columns and dowels
- used for repairing concrete foundation which have been cracked or spalled, thru pressurized epoxy injection and grouting process.

Processing Data

Mix Ratio (by volume)	1 Part A (Resin):1 Part B (Hardener)
Initial Cure at 25 °C	45-60 minutes
Full Cured at 25 °C	12 hours, 48 hours before loading pressure
Pot Life at 25 °C	20-30 minutes
Shelf Life	Minimum of two (2) years under normal temperature

Technical / Performance Data

Viscosity at 27 C	Component A	4,900 cps
	Component B	1,700 cps
Volume Solid	100%	
Adhesion	Excellent	
Compressive Strength (ASTM C109/D695)	Minimum: 8,000 – 10,000 psi at 7 days full curing Maximum: 10,000-12,000 psi at 7days full curing	
Tensile Strength (ASTM D638)	2,500 – 2,800 psi at 7 days full curing	
Flexural Strength (ASTM D790)	3,500 – 4,000 psi at 7 days full curing	

Procedure & Guidelines

SURFACE PREPARATION

GENERAL

All surfaces must be thoroughly cleaned to remove dirt, grease, mill scale, loose rust, chalk, and any other contaminants that can reduce adhesion. Sweep or if necessary blow clean with an air compressor. Before application make sure surface must be dry.

MIXING & APPLICATION

Stir separately Component-A and Component-B of SEALBOND EPOXY 518- FE using electric drill or manual mixer. Pre-measure enough quantities of resin, hardener and fillers (clean, dry silica sand) to be used. Mix thoroughly resin with fillers and then the hardener. Mixing Ratio of epoxy is 1 part by volume of Component-A to 1 part by volume of Component-B. Ratio of filler to epoxy admixture is 1 part by volume of Epoxy Admixture to 1.0-1.5 gallons of filler depending on the consistency. Any change from the recommended proportion will affect its quality. Scrape the bottoms, sides and corners of the container to ensure complete and full blending. Prepare only enough quantities that can be used within the pot-life period. Do not delay application. Install equipment by embedment, modern rail, or sole plate-mounting methods

Health & Safety

Please wear rubber or plastic gloves to avoid contact with skin. Please refer to MSDS for other safety information.

Product is for Professional use only.

Storage / Packaging

SEALBOND 518-FE is available in 3.8 kg/s. per gallon kit.

This product must be stored dry, protected from sun and rain.

Product Limitations

Product can withstand heavy load but cannot withstand excessive abrasion.

Additional Information - Disclaimer

The information and in particular, recommendations relating to the application and end-use of Sealbond products, are given in good faith based on Sealbond's best knowledge and specialty on construction chemical formulations. Products are properly stored and handled in accordance with Sealbond's endorsements. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. In practice, to different materials used, as well as varying working conditions and environments beyond our control Sealbond Chemical Industries Inc. strictly recommend carrying out intensive trials to test the suitability of the product with regards to the required processes and applications. Therefore, any liability for such recommendations or any oral/verbal advice is expressly excluded unless we have acted wilfully or by gross negligence. Sealbond Chemicals Industries Inc. is not liable for installation or faulty installation. It is always the responsibility of the installer/applicator/purchaser to guarantee and certify the installation of materials.

All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the Product Data Sheet for the product awareness, copies of which will be supplied on request and is free of charge.