

SEALBOND 218-P

STRUCTURAL PRESSURE INJECTION EPOXY

Product Description

SEALBOND PRESSURE INJECTION EPOXY (218P) is a two component adhesive system composed of 100% solids Epoxy that contains polyamide curing agent ensuring a tough and durable bond resistant to chemicals and corrosion. This unique low viscosity adhesive is primarily designed for the all around remedy of structural concrete defects and flaws particularly the repair of cracks by pressure injection. Aside from sealing cracks and crevices and filling voids, it can also be combined with fine aggregates or silica sand to result in an Epoxy Mortar for high strength grouting.

Application Areas

- Structurally re-bond cracked or delaminated concrete, and masonry
- Filling voids in honeycombed or poorly consolidated concrete
- Re-sealing of bug holes and pot holes
- Patching uneven surfaces
- Sealbond 218-P is tested under *Japan Testing Center for Construction Materials*: Compressive Strength performed according to JIS A 6024 (Epoxy Adhesive for repairing and reinforcement in buildings).

Processing Data

Mix Ratio (by volume)	2 Part A: 1 Part B
Tack Time at 25 °C	4 hours
Full Cured at 25 °C	24 hours, 72 hours before applying pressure
Pot Life at 25 °C	1-2 hours (Admixtures)
Shelf Life	1 year at room temperature

Technical / Performance Data

Shrinkage	Negligible	
Compressive Strength (JIS A 6024)	74.1 MPa Japan Testing Center for Construction Materials	
Compressive Strength ASTM C109-95/ D695	Min	8,000 -11,000 at 7 days
	Max	11,000 -12,000 at 7 days
Tensile Strength (ASTM D638)	7,000-8,000 psi at 7 days	
Flexural Strength (ASTM D790-92)	6,000 – 9,000 psi at 7 days	
Bond Strength (ASTM C882-99)	3,000 – 5,000 psi at 7 days	
Hardness (ASTM D2240)	80 Shore D	
Viscosity	1670 cps	
Resistance to Chemicals	Resistance to most organic solvents, mild acids and alkalis	
Solid by Volume	100%	

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.

MIXING

Mix 2 Parts by volume of Resin Base (Part A) to 1 Part by Volume Hardener (Part B) for 3-4 minutes. Any changes 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.

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APPLICATION

PRESSURE INJECTION

Blow compressed air along the crack lines to completely clean, dry and remove dirt and other loose contaminating materials. Provide temporary seal on crack surface except entry and exit ports. Inject Sealbond 218-P starting at the lowest entry port up to the proceeding ports until the voids are completely filled.

EPOXY GROUTING V-CUT SYSTEM

V-cut all cracks for repair. Blow compressed air along the crack lines to completely clean, dry and remove dirt and other loose contaminating materials. Apply by brush pure Sealbond Epoxy 218-P to serve as primer then apply Sealbond Epoxy 218-P mixed with silica sand or patching compound on v-cut surface.

Epoxy Grouting On Concrete Honeycomb:

Chip off loose concrete. Remove dust, dirt and other loose contaminating materials. Install formworks on honeycomb providing for a small opening on the upper portion. Pour Sealbond Epoxy 218-P mixed with silica sand. Remove formworks upon curing of epoxy grout.

CLEANING-UP

Pressure Injection tools and other equipment maybe cleaned with Sealbond Epoxy Reducer while the mixture has not yet hardened. Wash off hands with detergent and warm water.

Health & Safety

Avoid contact with eyes and skin and avoid breathing its vapor. This product may cause severe skin irritation after prolonged or repeated exposure. Keep containers tightly closed and store in a cool dry place.

Product is for Professional use only.

Storage / Packaging

SEALBOND 218-P is available in 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.



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