

SEALBOND 385-UE

UNDERWATER EPOXY

Product Description

SEALBOND EPOXY UNDERWATER (385-UE) is a 100% Epoxy-Amine type curing agent especially formulated for use to cure at high humidity, low temperature (down to 5°C) and underwater. It has excellent chemical resistance and low water miscibility. It renders excellent adhesion and bonding capabilities designed for the all-around remedy of structural concrete defects and flaws through pressurized injection and grouting and for other marine applications. It may be applied even on damp surfaces or even during cold conditions.

Application Areas

- Bonding non-slip materials to hardened concrete
- Pressure injection repairs of cracked concrete walls, floors, beams, and other structures for above or underwater applications.
- Forms an epoxy mortar when mixed with graded fine aggregates for high strength grouting repair of concrete surface/structures.

Processing Data

Mix Ratio (by volume)	2 Part A: 1Part B	
Initial Setting Time	Dry	45-85 minutes
	Wet/Underwater	1-3 hours
Full Cured	Dry	24 hours
	Wet/Underwater	7 days
Pot Life at 25 °C (admixture)	20-30 minutes	
Shelf Life at 26 °C	Min. 12 months	

Technical / Performance Data

Colors	Component A	Light Straw;
	Component B	Amber
Viscosity at 27°C	Component A	4,900 cps
	Component B	1,200 cps
Tensile Strength ASTM D638-91	3,000 – 5,000 psi at 7 days full curing	
Flexural strength ASTM D790-92	6,000 – 9,000 psi at 7 days full curing	
Bond Strength (Slant Shear Test) AASHTO T-237	3,000 – 5,000 psi at 7 days full curing	
Compressive Strength ASTM C109-95/D695	11,000 – 12,500 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.

MIXING

Mix thoroughly by volume 2 parts of resin to 1 part of hardener for 3 to 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.

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 385-UE starting at the lowest entry port up to the proceeding ports until the voids are completely filled.

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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 385-UE to serve as primer then apply Sealbond Epoxy 385-UE 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 385-UE mixed with silica sand. Remove formworks upon curing of epoxy grout. (For other detailed and demanding application, please contact Sealbond Technical personnel)

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 385-UE 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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Structural Concrete Repairs

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