



Water Based Epoxy

Product Data Sheet

PRODUCT DESCRIPTION

LDL WB Epoxy is a two component, low odor, low VOC (<50g/l) water-based epoxy designed especially for flooring applications subjected to moderate traffic and chemicals. It is an ideal choice as a sealer providing excellent surface penetration and adhesion. The system is ideally suited for application on concrete. This coating is extremely durable, easily cleanable and exhibits good stain, chemical, and slip resistance with an extremely low odor.

LDL WB EPOXY ADVANTAGES AND BENEFITS

- VOC compliant
- ADA compliant
- Convenient 4:1 mix ratio
- Excellent adhesion
- Extraordinary chemical resistance
- Easy Maintenance
- Many topcoat options available

LIMITATIONS

Not recommended for use over flexible substrates. It is best suited for application in temperatures between 60 deg F to 90 deg F. Substrate must be clean, sound and dry. To minimize pinholes and surface defects, a primer coat of LDL water-based epoxy is recommended for flooring. Concrete shall be moisture cured for a minimum of 28 days and have a minimum of 14 days in accordance with ACI-308 prior to the application of coating pending moisture tests.

LDL WB EPOXY TYPICAL USE AREAS

- Mechanical Rooms
- Machine Shops
- Heavy Industrial/Manufacturing
- Light Industrial/Commercial
- Automobile Repair Facilities
- Chemical processing facilities and warehouses
- Loading Docks

SUBSTRATE REQUIREMENTS

Site must be free of dirt, waxes, curing agents, or other foreign agents and free from condensation or water contamination during application and cure. Shot blasting or scarifying is required. Substrate can be profiled and primed with LDL water-based epoxy.

APPLICATION METHOD

LDL WB Epoxy can be applied by mixing in the appropriate ratio and rolling at a spread rate of 400 sq/ft per mixed gallon. If a higher thickness is required, use multiple coats of the WB Epoxy.

PACKAGING AND STORAGE

LDL WB Epoxy is provided in 5gl pail (filled to 4gl and B liquids in gl jugs and for a full kit) and 1.25 gl kits. Kits should be stored in a clean, dry area in stable temperatures approximating 60 to 90 deg F.

APPLICATION

The A and B liquids should be added in the proper ratio to a bucket and mixed with a drill mixer for no less than two minutes. The mixture should be homogeneous and can be applied to the substrate via dip and roll or squeegee and backroll. Apply with a short nap roller at a spread rate of 400 ft 2 per mixed gallon. LDL WB Epoxy will go down milky white and turn clear as it dries. A second coat may be applied once the first coat has turned clear. The surface can be used as is or a top coat can be applied having the desired properties for the final surface. The recoat window for a topcoat is 24 hours. Clean up with soap and water before product dries.

MOISTURE CONCERNS

Limits for moisture vapor transmission for epoxy systems are 3lbs/1000sqft/24 hours using the calcium chloride test, per ASTM F1869.

MAINTENANCE

Regular cleaning and maintenance will prolong the life of all polymer flooring systems and enhance their appearance. LDL WB Epoxy will respond well to wash downs, and a wide range of degreasing cleaners.

TECHNICAL DATA

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	80
Compressive Strength	ASTM C-579	8000 psi
Tensile Strength	ASTM D-638	3800 psi
Flexural Strength	ASTM D-790	3500 psi
Impact Resistance	ASTM D-3134	pass
Slip Resistance	ASTM D2407	pass 0.6
Abrasion Resistance	ASTM D4060	75 mg



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INSTALLATION INFORMATION

Cure time @ 77F	
Dry to touch	2-4 hrs
Recoat	24 hrs
Return to Service	36-48 hrs
Mix Ratio (pre measured volume)	4:1 Resin:Hardener
Working time	30 min
Toxicity	Sensitized individuals do not install

CHEMICAL RESISTANCE

LDL WB Epoxy has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic fluids, aromatic and aliphatic solvents. Some acids may discolor or bleach the surface.

HEALTH AND SAFETY

Read carefully and follow Material Safety Data Sheets and application instructions for the LDL WB Epoxy flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment and clothing to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

WARRANTY

LDL warrants that for a period of one year that its products will be free of manufacturing defects and will be in conformity with published specifications when stored, handled, mixed, and applied in accordance with LDL recommendations. If any product fails to meet this warranty, LDL's liability will be limited to replacement of any non-conforming material if notification is made to LDL within the one year period. In order to obtain replacement or refund for the value of the non-conforming materials, the customer must provide written notice containing details of the non-conforming performance. LDL reserves the right to inspect the non-conforming material before replacement is made. Except for the expressed warranty stated here, there are no other warranties, expressed or implied, including without limitation, any implied warranty of merchantability or fitness for any other purpose. LDL's obligation shall not extend beyond the obligations expressly undertaken above and LDL shall have no liability or responsibility to the purchaser or any other third party for any loss, cost, expense, damage, or liability, weather direct or indirect, or for incidental or consequential damages.