



PRODUCT TECHNICAL DATA SHEET

EPOXY WB FAST

Advanced Coating Systems

TWO-COMPONENT DEEP PENETRATING EPOXY

GENERAL PRODUCT DESCRIPTION

Epoxy WB Fast is a two-part water-based high performance epoxy that delivers a long pot life and fast cure times. It may be applied as a primer or a top coat, is USDA compliant, and has high chemical resistance. Epoxy WB Fast also exhibits higher color stability over other epoxy formulations (whether water-based or 100% solid). If using as a primer, it should be applied at 350 - 450 Sq Ft per gallon. depending on the surface condition. If using as a top coat, it should be applied between 250-350 Sq Ft per gallon. depending on the surface condition. Epoxy WB Fast should be used as a primer if installing another coating system over damp concrete. Epoxy WB Fast is the best choice when a thin, and fast curing coating is needed. If installing a 2 coat, thin coating system, like all water-based epoxies, it should be used in foot traffic areas only as it has less mil thickness than 100% solid epoxies.

ADVANTAGES

- Self-Priming
- Voc = 0 G/L
- Fast Dry Time (<1-2 Hour)
- Seamless Flooring System
- Essentially Odorless
- Long Pot Life (Over 2 Hours)
- No Amine Blush
- Can Be Applied Over 10 Day Old Concrete
- High Color Stability (For An Epoxy)
- Able To Be Applied Over Damp Concrete

PRODUCT DATA

Volumetric Ratio:	2 to 1
Solids:	49%
Application Temperature:	65-90°F and 5° Above The Dew Point
Thinning:	Not Required
Working Time on Floor:	10-15 Minutes
Cure Time:	1-2 Hours (Foot Traffic) 12 Hours (Light to Med Traffic) 24 Hours (Heavy Traffic)
Critical Recoat Time:	14 Hours

Cure time, pot life, and working time are based on a slab temperature of 70-75 F°, and will change accordingly as temperature changes.

PACKAGING

Epoxy WB Fast is available in 2 different kit sizes:

	Part A	Part B
3 Gallon Kit	2 gal.	1 gal.
15 Gallon Kit	10 gal.	5 gal.

APPLICATIONS

- Manufacturing Floors
- Food Preparation
- Aisle Ways
- Chemical Flooring
- Aerospace
- Retail Establishments
- Warehouse Floors
- Walls & Drywall
- Auto Service
- Schools and Hospitals

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Bond to Concrete	350 psi concrete fails at this point	ASTM D 4541
Taber Abrasion	70-75 Mgs.	ASTM D 4060 CS 17 Wheels
Flammability	Self-extinguishing	ASTM D 635
Pencil Hardness	2 H	ASTM D 3363
Flash Point	>200°F	ASTM D 93
Gloss	98.	ASTM D 523

COLORS

Epoxy WB Fast is typically clear but also available in white, black and gray. Other colors may be made available on a special request basis.

SURFACE PREPARATION

Before the coating is applied, the concrete must be:

- Clean — Contaminants removed
- Profiled — Surface mechanical preparation
- Sound — Cracks repaired

Mechanical methods are required for preparing concrete prior to coating application. If apply 2 coatings as a thin coating system. The substrate should be a CSP 2 to 3. If using Epoxy WB Fast as a primer with a build system on top, then shotblasting is acceptable with the proper CSP based on the system of choice.

PATCHING

Voids, cracks, and imperfections will be seen in finished coating if the concrete is not patched correctly, especially if applying 2 coats as a thin coating. Patch the concrete with 1 of the ONYX patch products. After the patching material has cured, diamond grind patch the patch flush with concrete.

MIXING

The mix ratio of Epoxy WB Fast is 2 to 1. That is, 2 parts of A - resin, to 1 part of B - hardener. Mix the following with a drill and jiffy mixer.

1. For the 3-gallon kit, simply pour the gallon of Part B into the 3 1/2-gallon pail containing 2 gallons of Part A and mix for 30-45 seconds until uniform.
2. For 15-gallon kits, add 2 gallons of Part A to a clean 5-gallon pail and then 1 gallon of Part B and mix for 60-90 seconds.
3. As is the case with all water-based polymers, any mixed resin left in the bucket may take several days to harden with the lid off. It is recommended to roll out leftover resin onto a substrate such as cardboard in order to remove leftover, wet resin from the bucket.

APPLICATION PROCESS

ONYX Epoxy WB Fast is usually applied in 2 or more coats at 350-450 Sq Ft per gallon for the primer, and 250-350 Sq Ft per gallon as a top coat. If applying 2 coats of a thin coating, estimate 150-200 Sq Ft per gallon for the system (which provides a 6-8 dry mil thickness).

1. Always apply in descending temperatures. Concrete is porous and traps air. Ascending temperatures (generally mornings), can cause out gassing in the concrete. It is safer to apply coatings in the late afternoon, especially for exterior applications. Optimum ambient temperature should be between 65-90°F and must be at least 5° above the dew point during application.
2. In very hot and dry conditions, pre-wetting the concrete with a pump up sprayer will help with application. Apply only enough water to darken the concrete but do not leave any standing water (damp dry).
3. Mix 3 to 6 gallons of coating using the above mixing instructions.
4. Apply approximately 300-400 Sq Ft per gallon by pouring out on to the surface in a ribbon or small puddles. Then spread evenly using a window squeegee
5. Using a 3/8" non-shedding phenolic (plastic) core paint roller, roll coating forwards and backwards. Do not allow puddles in low spots, cracks, and divots. Brush out excess material.
6. Lastly, backroll in the opposite direction from step 5. Pull resin fairly thin while completely wetting out concrete and uniformly covering the surface. Keep a wet edge and as soon as the coating is uniform on the floor leave it alone and do not go back to touch up.
7. After the first coat is cured enough to walk on (2-14 hrs.), apply second coat by repeating steps 1-6.

PRODUCT LIMITATION

Always read ONYX PRODUCT LIMITATION GUIDELINES document prior to installation as the content below is only partial information.

If using Epoxy WB Fast as a 2 coat thin system, it will only be able to handle foot traffic—as is the case with all water-based epoxies. Any conditions more aggressive than that (i.e., carts, automobiles, forklifts) will cause the product to wear due to its thin dry mil thickness. At which point, it is recommended to use a 100% solid epoxy.

Ground level concrete slabs emit moisture vapor. The allowable vapor emissions for concrete is 3 lbs. per 1,000 Sq Ft over a 24 hour period. If vapor is above this level, then blistering and delamination of the coating may occur. A calcium chloride test, in accordance with ASTM F1869 Standards, should be performed to determine the concrete vapor level. If the vapor levels exceed the 3 lb. limit, a concrete vapor control system should be used before applying any coating system. Please contact the ONYX technical department for approved systems.

Coating systems are susceptible to cracking if the concrete moves or separates below the coating. Hence, joint and crack treatment should be reviewed prior to the coating application. As a general rule, control joints (saw cuts) and random cracks should be saw cut or chased first, then filled with the appropriate patch material. Construction joints (2 slabs which meet and hence move) should be treated. After the coating has been applied and cured, saw cut through the coating over construction joints.

CLEANUP

Epoxy WB Fast while in a liquid state may be cleaned up with water and degreaser. Otherwise a strong solvent like acetone may be required while the epoxy is setting up.

WARRANTY

ONYX products are warranted for 1 year after the date of manufacture. Please refer to the ONYX Concrete Coating's Limited Material Warranty for additional clarification.

SAFETY

Consult the Epoxy WB Fast safety data sheet. Avoid Epoxy WB Fast contact with eyes and skin. Some individuals may be allergic to epoxy. Always wear protective eyewear, clothing, and gloves. Safety always comes first.

MAINTENANCE

Refer to the ONYX Maintenance and Cleaning Guidelines.