

All Weather Floors

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

AWFWB-Epoxy is a 70% solids clear or pigmented, 2-component, water based aliphatic epoxy formulation with excellent chemical and UV resistance. It has great adhesion to most substrates such as concrete, metals and asphalt. There is no odor or VOC's allowing for inside applications. It is available with 50% nano-size glass filler, anti-static, anti-microbial and anti-corrosive additives. It can be used as a primer and can be diluted with water of up to 25% to help penetrate porous concrete. AFWWB-Epoxy dries to a high gloss top coat finish. The glass filled dries to a matte, non-skid finish. AFWWB-Epoxy dries very fast depending on temperature, humidity and thickness.

Working Time: From 5 Gallon Plastic Pail – 4 Hours.

AWFWB- Epoxy PHYSICAL PROPERTIES

		REGULAR	GLASS-FILLED
Flex Modulus	ASTM D624	500 kpsi	800 kpsi
Tensile Strength	ASTM D412	9200 psi	9500 psi
Elongation	ASTM D412	18%	18%
Heat Deflection Temp.	ASTM D648	175°F	190°F
Relative Humidity	ASTM F2170	85%	85%
Taber Abrasion CS18	ASTM D4060	75 mg	75 mg
Pot Life	Time	8 hours max	6-8 hours max

MIX RATIO

1:1 by Volume. Do not split. Read product labels and application instructions prior to use. Mix GF-WB-Epoxy Hardener (A-Side) and Resin (B-Side) by adding the A component to the B component (kit) Mix with a variable speed drill utilizing a Jiffy Mixer to suspend any settled pigment and attain a uniform color. Please mix each part individually before mixing together. For glass-filled mix, add the nano-glass filler AFTER combining the Hardener and Resin. Glass filler can be added up to 100% of the combined liquids. The use of glass filler reduces the spread rate

Optional: 2 Quarts Glass bead per gallon of color coat, excluding primer. Coverage reduced to 250 Sq. Ft. Per gallon.

HEALTH AND SAFETY

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

TECHNICAL APPLICATION DATA

Substrates must be fully cured and cleaned and degreased prior to any coating operation. The cleaning operation must not leave any residual detergents, acids or alkali cleaners.

Epoxy coatings will always have better adhesion over a profiled floor. This product will adhere to a concrete that has not been sealed, coated or power-troweled. The concrete should feel rough to the touch. When in doubt an adhesion test should be performed, or the concrete should be profiled by acid etching, grinding or shot blasting.

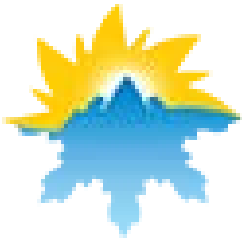
There should be no visible rust prior to coating. After substrate is properly prepared, AFWWB-Epoxy 1 self-priming material should be applied within 45°F to 100°F. It is recommended that AFWWB-Epoxy be applied as a primer coat to the bare substrate which will actively penetrate any porous surface. Primer coat should be applied at 4-6 mil thickness. Add one quart of water per mixed gallon. Coverage as primer is about 400 Sq. Ft. / Gallon. After the prime coat is dry to the touch, apply the AFWWB-Epoxy base coat. For non-skid flooring, use Glass Bead . Apply 8-10 mils of coating. Glass-Filled AFWWB-Epoxy will dry to matte finish; for gloss finish, top coat with clear AFWWB-Epoxy. To reduce viscosity 5% water may be added. AFWWB-Epoxy may be applied using rollers, brush or air-less spray. Pot life of the mixture is up to 8 hours. There is no end point on gel like conventional epoxy, so do not use the mixture after 4 hours. Coverage at 8 mils is 300 sq. ft. / mixed gal.

Apply using a quality 3/8" roller and the 'dip and roll' application method. Pour small amount of material into a paint tray, load your roller and apply. All Mil Thickness is quoted based on the wet film thickness.

A clear coat is not required for solid colors, however clear is required for flake systems. Do not add glass bead to clear. If additional anti-skid properties are required in clear coat, we suggest .8 lbs of tabular alumina per gallon.

Recoat Time: The minimum recoat time is 6 hours. The maximum recoat time is 48 hours. Ideally the floor should be recoated when you can touch the floor with a gloved hand and there is no color transfer..

Light Use: 24-48 Hours. Full Use: 72 Hours



All Weather Floors

CHEMICAL RESISTANCE CHART

21 Day Immersion Test ASTM D3912

Chemical Name	Results @ 25°C
Acetic Acid	R
Acetone	R
Ammonium Hydroxide (14%)	R
Brake Fluid	R
Brine-Saturated Water (310g/l)	R
Clorox (10%) Water	R
Diesel Fuel	R
Gasoline	R
Gasoline 5% MTBE	R
Gasoline 5% Methanol	R
Hydrochloric Acid (25%)	R
Hydrochloric Acid (10%)	R
Hydraulic Fluid	R
Isopropyl Alcohol	R
Lactic Acid	R
MEK	R
Methanol	R
Methylene Chloride	C
Mineral Spirits	R
Motor Oil	R
MTBE	C
Muriatic Acid (10%)	R
NaCl Water (10%)	R
Nitric Acid (20%)	RC
Phosphoric Acid (10%)	R
Phosphoric Acid (50%)	R
Potassium Hydroxide (10%)	R
Potassium Hydroxide (20%)	R. Dis
Skydrol	R
Sodium Hydroxide (25%)	R. Dis
Sodium Hypochlorite (10%)	R
Sodium Bicarbonate	RF1
Stearic Acid	R
Sugar Water	R
Sulfuric Acid (10%)	RC
Sulfuric Acid (30%)	NR
Toluene	R
Trisodium Phosphate	R
Vinegar Water (5%)	R
Water	R
Water (14 days @ 82°C)	R
Xylene	RC

72 Hour Spot Test Chemical Resistance Data

AWFWB-Epoxy	
Chemical	Rating
NHO ₃ 50%	8
HCL 37.5%	9
NaOH 50%	8
H ₂ SO ₄ 50%	8
HI 57%	8
H ₃ PO ₄ 50%	8
Brake Fluid	10
Anti-Freeze	10
Motor Oil	10

Rating Guidelines

0-1	75-100% Film Dissolved
1-2	50-75% Film Dissolved
2-3	25-50% Film Dissolved
3-4	1-25% Film Dissolved
4-5	Film damage severe, cracking, pinholes
5-6	Film moderate to heavy damage, swollen, dulled
6-7	Film moderately damaged, haze, residue
7-8	Film with slight or no damage, slight haze, residue
8-9	Film in very good condition
10	Film unchanged, excellent condition

*NOTES:

- All samples using 57% HI had purple iodine discoloration due to the nature of the acid in the air
- Samples were placed at room temperature for 72 hours after application of 1 ml of solvent on 16 mil film of product

CHART KEY

- R – Recommended (little or no visible damage)
- RC – Recommended Condition (swelling or discoloration)
- C- Conditional (crackling – wash down within 1 hour)
- NR – Not Recommended
- Dis. – Discoloration

Warranty: All Weather Floors warranty is limited to the product matching our specifications at time of production. The sole remedy for failure shall be replacement of product or refund of material purchased at the sole discretion of All Weather Floors LLC. We do not warranty labor or consequential damage.