



AG505VX

VERTICAL EPOXY BASE COAT

PRODUCT DESCRIPTION

AG505VX is a two component 100% solids epoxy colored coating designed for applications to vertical surfaces at a high build while resisting sags or runs. High abrasion and impact resistant.

Recommended for: Cement or concrete block applications up to 15 mils thick without runs at 70°F.

Vertical Applications	Multiple Colors	Super Durable	Easy to Install	Roll On Application
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TECHNICAL DATA — SPECS

Property	Value	Property	Value
SOLIDS BY WEIGHT:	100% (±1%)	SOLIDS BY VOLUME:	100% (±1%)
REC. FILM THICKNESS:	10–20 mils	VOC CONTENT:	Less than 7 g/L
MIX RATIO:	8.90 lbs Part A to 1.60 lbs Part B	SHELF LIFE:	1 year in unopened containers
FINISH:	Gloss (72 @ 60° glossmeter)	COLORS:	White, Off White, Lt Gray, Med Gray, Beige
FLEXURAL STR:	7,300 psi @ ASTM D790	COMPRESSIVE STR:	10,600 psi @ ASTM D695
TENSILE STR:	7,300 psi @ ASTM D638	ADHESION:	420 psi @ elcometer (concrete failure, no delam)
VISCOSITY:	Mixed = 3,000–4,000 cps (typical, most colors)	HARDNESS:	Shore D = 70–80
ULTIMATE ELONGATION:	3.2%	GARDNER IMPACTOR:	3,250 in-lb direct — passed
ABRASION RESISTANCE:	Taber CS-17, 1000g load, 500 cycles = 38 mg loss	COVERAGE:	80–160 sq ft/gal @ 10–20 mils

CURE SCHEDULE

Stage	Time	Notes
Pot Life (2 gal volume)	45–90 minutes	Do not mix more than you can apply in pot life window
Tack Free (dry to touch)	10–14 hours	
Recoat or Topcoat	14–16 hours	
Light Foot Traffic	16–24 hours	
Full Cure (heavy traffic)	2–7 days	
Application Temperature	50–90°F	Relative humidity below 90%

CHEMICAL RESISTANCE

Chemical	Rating	Chemical	Rating
Xylene	B	10% Sodium Hydroxide	E
Trichloroethylene	B	50% Sodium Hydroxide	D
Methanol	A	10% Sulfuric Acid	C
Ethyl Alcohol	C	70% Sulfuric Acid	A
Skydrol	A	10% HCl (aq)	C
5% Acetic Acid	C		

Rating Key: A – Not recommended | B – 2-hour splash/spill | C – 8-hour splash/spill | D – 72-hour immersion | E – Long-term immersion. Extensive chemical resistance data available through your sales representative.

PRIMERS / TOPCOAT

Primer: Use AG015V.

Topcoat: None normally needed. For increased chemical resistance and UV stability, use an aliphatic urethane topcoat.

PACKAGING INFORMATION

1 gallon kit (8.90 lbs Part A + 1.60 lbs Part B). Part A is in a gallon can (not full), Part B is in a quart can (not full). When Part B is transferred to Part A, the result is one gallon mixed (volumes approximate). Also available in 5 gallon kits.

PRODUCT STORAGE

Store product at normal room temperature before using. Continuous storage should be between 60°F and 90°F. Low temperatures or extreme temperature fluctuations may cause product crystallization.

SURFACE PREPARATION

Surface preparation will vary according to the type of complete system to be applied. For a two coat thin to medium build system on vertical surfaces, we recommend mechanical scarification until a suitable profile is achieved. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble-free bond to the substrate. We do not recommend this product for vertical surfaces below grade.

PRODUCT MIXING

This product has a mix ratio of **8.9 lbs Part A to 1.6 lbs Part B**. Standard packages are in pre-measured kits and should be mixed as supplied. We highly recommend that kits not be broken down unless suitable weighing equipment is available. After combining, mix well with slow speed mixing equipment such as a jiffy mixer until thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.

PRIMING

Primer need is based on type of substrate and its condition. When a primer is needed, we recommend AG015V before applying this product. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

PRODUCT APPLICATION

The mixed material can be applied by brush, roller, or spray. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. Apply the material between the recommended thicknesses to avoid sags and runs.

RECOATING OR TOPCOAT

If you opt to recoat this product, you must first be sure that the coating has tacked off before recoating. All previous coats should be deglossed to ensure a trouble-free bond prior to application of recoats. Colder temperatures will require more cure time before recoating can commence.

Before recoating, check the coating to ensure no epoxy blushes have developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to recoating using any standard detergent cleaner. If you plan to topcoat with another epoxy or urethane, always check compatibility and adhesion characteristics prior to topcoating. Multiple coats of this product are compatible.

CLEANUP

Use xylol.

FLOOR CLEANING

Some cleaners may affect the color of the installed coating. Test each cleaner in a small area using your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS

Restrict the use of the surface to light use and non-harsh chemicals until the coating is fully cured (see cure schedule). It is best to let the surface remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

LIMITATIONS

Color or gloss may be affected by environmental conditions such as high humidity, low temperatures, chemicals, or certain types of lighting. Colors may vary from batch to batch — use only product from the same batch for an entire job. Apply a suitable primer before using this product when necessary. This product is not UV color stable but has good resistance to color change for an epoxy. A topcoat is optional dependent on the environment.

Light or bright colors may require a suitable primer or topcoat to achieve satisfactory hide. Test sag resistance at job site as environmental conditions, including type of substrate, humidity, or temperature may cause variable results. Substrate temperature must be 5°F above dew point. For best results, apply with a 3/8" nap roller. All new concrete must be cured for at least 30 days prior to application. Physical properties are typical values and not specifications.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information is not a representation or warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose.

NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE THAT OUR PRODUCT SHALL BE MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE. Our liability is limited to the net selling price or replacement of our product, at our option.

Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.

Technical Bulletin AG505VX | Rev. 03/2026