american coating technologies
www.amcoating.com

Product Technical Data

AM 505V Vertical Epoxy Block Filler

Product Description

AM 505V is a two component 100% solids epoxy colored coating designed for applications to vertical surfaces at a high build while resisting sags or slump.

Recommended For

Recommended for cement or concrete block applications up to 15 mils thick without runs at 70F. Good resistance from sags or runs from 10-20 mils at 70F.

Solids By Weight:
100% (+/- 1%)

Solids By Volume:
100% (+/- 1%)

Volatile Organic Content:
Zero pounds per gallon

Standard Colors:
White, off white, light gray, medium gray and beige

Recommended Film Thickness:
10-20 mils

Coverage Per Gallon:
80-160 square feet per gallon @ 10-20 mils

Packaging Information:
1 gallon kit (8.90# part A to 1.6# part B) (this is a gallon can of part A (not full) plus 1.6# of part B in a quart can (not full). When the part B is transferred to the part A can, the result is one gallon mixed (volumes approximate) Also available in 5 gallon kits.

Mix Ratio:
8.90 pounds part A to 1.60 pounds part B

Shelf Life:
1 year in unopened containers

Finish Characteristics:
Gloss (72 at 60 degrees @ glossmeter)

Abrasion Resistance:
Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 38 mg loss

Flexural Strength:
7,300 psi @ ASTM D790

Compressive Strength:
10,600 psi @ ASTM D695 – 1/2 "X 1/2" bars

Adhesion:
420 psi @ elcometer (concrete failure, no delamination)

Viscosity:
Mixed = 3000-4000 cps (typical, most colors)

Dot Classifications:
Part A "not regulated"
Part B "CORROSIVE LIQUID N.O.S., 8, UNI1760, PGIII"

Tensile Strength:
7,300 psi @ ASTM D638

Ultimate Elongation:
3.2%

Gardner Variable Impactor:
50 inch pounds direct – passed

Hardness:
Shore D = 70-80

Cure Schedule: (70° F)

Pot life – 1 gallon volume	45-90 minutes
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 degrees F with relative humidity below 90%

Chemical Resistance:

Reagent	Rating
Xylene	B
Trichloroethylene	B
Methanol	A
Ethyl alcohol	C
Skydrol	A
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	C

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

Primer:
Recommended AM015V

Topcoat:
None normally needed (for increased chemical resistance and increased UV stability use an aliphatic urethane topcoat)

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. Therefore, 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 a satisfactory hide.

Test sag resistance at job sight 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.

See reverse side for application instructions.

Physical properties are typical values and not specifications.

See reverse side for limitations of our liability and warranty.

AM 505V Instructions:

1) PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Low temperatures or great temperature fluctuations may cause product crystallization.

2) 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. When the vertical surface is below grade, a test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

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

4) PRIMING: Primer need is based on type of substrate and its condition. When a primer is needed, we recommend AM015V before applying this product. See the front side of this technical data for primer information. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

5) 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.

6) RECOATING: If you opt to recoat this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be deglossed to insure a trouble free bond prior to application of recoats. Always remember that colder temperatures will require more cure time for the product before recoating can commence. Before recoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to recoating. Any standard type detergent cleaner can be used to remove the blush. If you plan to topcoat this product with another epoxy or urethane, always check compatibility and adhesion characteristics prior to topcoating. Multiple coats of this product are compatible.

7) CLEANUP: Use xylol

8) FLOOR CLEANING: Caution! Some cleaners may affect the color. Test each cleaner in a small area. If no ill effects are noted, you can continue to clean with the product and process tested.

9) RESTRICTIONS: Restrict the use of the floor to light use and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the surface where the product is applied to remain dry for the full cure cycle.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

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 supplied about our products is not a representation or a 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. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications.

NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. N0 WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. 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.**