

TECHNICAL DATA- EC505V VERTICAL EPOXY BLOCK FILLER

PRODUCT DESCRIPTION:

EC505V 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:

Less than 7 g/l

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, UN11760, 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:

pot life – 1 gallon volume45-90 minutes @ 70° F
tack free (dry to touch).....10-14 hours @ 70° F
recoat or topcoat.....14-16 hours @ 70° F
light (industrial use).....16-24 hours @ 70° F
full cure (heavy traffic).....2-7 days @ 70° F

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% HCl (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 EC015V

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.