

TECHNICAL DATA

Residential I High Build Epoxy Coating EC707X

HIGH BUILD EPOXY COLOR COAT

PRODUCT DESCRIPTION:

EC707X is a two component 100% (+/- 1%) solids epoxy colored coating designed for applications where a high build colorfast impact resistant floor is needed.

RECOMMENDED FOR:

Recommended for a high build topcoat or basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

SOLIDS BY WEIGHT:

100% (+/- 1%)

SOLIDS BY VOLUME:

100% (+/- 1%)

VOLATILE ORGANIC CONTENT:

Less than 2 g/l

STANDARD COLORS:

White, off white, light gray, medium gray, tile red, and beige

RECOMMENDED FILM THICKNESS:

12-30 mils

COVERAGE PER GALLON:

53-130 square feet per gallon @ 12-30 mils

PACKAGING INFORMATION

3 gallon kits (2.9 – 3.0 gallons net approximately)

15 gallon kits (14 – 15 gallons net approximately)

MIX RATIO:

12 pounds (1 gallon) part A to 4.15 pounds (.50 gallons) part B (volumes approx.) (standard colors)

SHELF LIFE:

1 year in unopened containers

FINISH CHARACTERISTICS:

Gloss (70-95 at 60 degrees @ glossmeter)

ABRASION RESISTANCE:

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 32 mg loss

FLEXURAL STRENGTH:

5,400 psi @ ASTM D790

COMPRESSIVE STRENGTH:

9,100 psi @ ASTM D695 – 1/2" X 1/2" bars

ADHESION:

450 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:

Mixed = 1300-2300 cps (typical, most colors)

DOT CLASSIFICATIONS:

Part A "not regulated"

Part B "CORROSIVE LIQUID N.O.S., 8, UN11760, PGIII"

TENSILE STRENGTH:

4,800 psi @ ASTM D638

ULTIMATE ELONGATION:

3.1%

GARDNER VARIABLE IMPACTOR:

50 inch pounds direct – passed

HARDNESS:

Shore D = 80

CURE SCHEDULE:

pot life – 1 1/2 gallon volume 30-50 minutes @ 70° F

tack free (dry to touch)..... 5-8 hours @ 70° F

recoat or topcoat..... 8-12 hours @ 70° F

light foot traffic..... 12-14 hours @ 70° F

full cure (heavy traffic)..... 2-7 days @ 70° F

APPLICATION TEMPERATURE:

60-90 degrees F with relative humidity below 85%

CHEMICAL RESISTANCE:

REAGENT	RATING
xylene	C
trichloroethylene	B
methanol	A
ethyl alcohol	B
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HCl (aq)	C
5% acetic acid	B

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 EC015X, EC143X/144X or other suitable primer coats.

TOPCOAT:

Optional – EC321X/322X aliphatic urethanes can be used for increased chemical resistance or increased UV stability.

LIMITATIONS:

Color stability or gloss may be affected by environmental conditions such as high humidity, low temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapor lights.

Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.

This product is not UV color stable and may discolor when exposed to UV lighting. Otherwise, the color stability of this product is good. Therefore, a topcoat is optional and dependent on the environment.

Light or bright colors may require a suitable primer or topcoat to achieve a satisfactory hide.

Substrate temperature must be 5° F above dew point.

All new concrete must be cured for at least 30 days prior to application.

Apply a suitable primer before using this product as a coating.

See reverse side for application instructions.

Physical properties are typical values and not specifications.

See reverse side for limitations of our liability and warranty.

TECHNICAL DATA- EC321X

Residential I: Military Grade Topcoat

HIGH PERFORMANCE URETHANE

PRODUCT DESCRIPTION:

EC321X is a two component polyester/aliphatic polyurethane floor sealer that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability.

RECOMMENDED FOR:

Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposure areas.

SOLIDS BY WEIGHT:

Mixed= 60% (colors); 56% (clear) (+,-2%)

SOLIDS BY VOLUME:

Mixed= 53% (colors); 53% (clear) (+,-2%)

VOLATILE ORGANIC CONTENT:

Less than 448 g/l

STANDARD COLORS:

White, off white, light gray, medium gray, tile red, beige, and clear

RECOMMENDED FILM THICKNESS:

3-5 mils per coat wet thickness (yields 2-3 mils dry)

COVERAGE PER GALLON:

320 to 500 square feet @ 3-5 mils wet thickness

PACKAGING INFORMATION

3 gallon and 15 gallon kits 3 gal kit= 2 gallons part A (10.5#/gal-colors) or (8.75#/gal-clear) and 1 gallon part B (8.5#/gal.) (weights and volumes approximate)

MIX RATIO:

2 parts A to 1 part B by volume

SHELF LIFE:

1 year

FINISH CHARACTERISTICS:

High gloss (>80 at 60 degrees @ glossmeter)

ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 20.0 mg loss

IMPACT RESISTANCE:

Gardner Impact, direct & reverse = 160 in. lb. (passed)

FLEXIBILITY:

No cracks on a 1/8" mandrel

ADHESION:

360 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:

Mixed = 200-400 cps (typical, most colors)

DOT CLASSIFICATIONS:

Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

HARDNESS:

Shore D = 72

CURE SCHEDULE: (70°F)

pot life – 1 1/2 gallons volume 2-5 hours
tack free (dry to touch)..... 2-4 hours
recoat or topcoat..... 4-8 hours
light foot traffic..... 14-24 hours
full cure (heavy traffic)..... 3-5 days

APPLICATION TEMPERATURE:

45-90 degrees F with relative humidity below 90%

CHEMICAL RESISTANCE:

REAGENT	RATING
acetic acid 5%	C
xylene	E
mek	B
methyl alcohol	B
gasoline	D
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric	D
10% hydrochloric acid	D
20% nitric acid	C
ethylene glycol	D

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:

Recommend EC143X/144X, EC154X or EC015X

TOPCOAT:

None recommended

LIMITATIONS:

Colors or gloss may be affected by high humidity, low temperatures, chemical exposure, or exposure to lighting such as sodium vapor lights. For best results use a high quality 3/8" nap roller. Slab on grade requires moisture barrier. Substrate temperature must be 5°F above dew point. All new concrete must be cured for at least 30 days. Physical properties are typical values and not specifications. Light or bright colors (white, safety yellow, etc.) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide. Tire contact may cause staining and discoloration. Colors may vary from batch to batch, therefore, use only product from the same batch for an entire job. See reverse side for application instructions. See reverse side for limitations of our liability and warranty.