

# TECHNICAL DATA- EC322X

## Commercial & Industrial I: Military Grade Topcoat Low VOC HIGH PERFORMANCE (VOC COMPLIANT) URETHANE

### PRODUCT DESCRIPTION:

EC322X is a two component polyester/aliphatic polyurethane coating that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering, and UV stability. This product meets the VOC requirements for the newly enacted VOC laws of New York, Pennsylvania, New Jersey, and other states as an industrial maintenance coating.

**RECOMMENDED FOR:** Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposures areas.

### SOLIDS BY WEIGHT:

Mixed= 73% (colors); 64% (clear) (+/- 2%)

### SOLIDS BY VOLUME:

Mixed= 70% (colors); 60% (clear) (+/- 2%)

### VOLATILE ORGANIC CONTENT:

VOC content is less than 335 g/l (mixed)

### 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 (weight varies by color) and 1 gallon part B (8.5#) (weights and volumes approximate)

### MIX RATIO:

2 parts A to 1 part B by volume (approximate)

### SHELF LIFE:

1 year in unopened containers

### FINISH CHARACTERISTICS:

high-gloss (>70 at 60 degrees @ glossmeter)

### IMPACT RESISTANCE:

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

### ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 22.0 mg loss

### ADHESION:

350 psi @ elcometer (concrete failure, no delamination)

### VISCOSITY:

Mixed= 200-600 cps (typical)

### 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= 62

### FLEXIBILITY:

No cracks on a 1/8" mandrel

### CURE SCHEDULE: (70°F)

pot life – (1 1/2 gallon volume).....2-4 hours

tack free (dry to touch).....3-5 hours

recoat or topcoat.....5-9 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%	B
xylene	D
mek	A
methyl alcohol	B
gasoline	D
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric	D
10% hydrochloric acid	C
20% nitric acid	B
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, EC154VOCX or EC015X

### TOPCOAT:

None recommended

### LIMITATIONS:

Colors or clarity for clear may be affected by high humidity, low temperatures, or chemical exposure.

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.

Light or bright colors (white, safety yellow, etc.) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide.

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

Tire contact may cause discoloration or staining.

Physical properties are typical values and not specifications.

See reverse side for application instructions.

See reverse side for limitations of our liability and warranty.