

# TECHNICAL DATA- EC321X

## Commercial & Industrial 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.