TECHNICAL DATA
Heavy-Duty Epoxy Slurry EC901SLX
Water Based Cement Urethane Slurry

PRODUCT DESCRIPTION:
EC901SLX is a three component urethane slurry that has outstanding wear performance and can withstand higher heat exposures than typical unmodified urethanes. The product has good thermal shock capabilities and is a good choice for hot wash down areas.

RECOMMENDED FOR:
Resurfacing areas where a durable shock resistant surface is needed.
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SOLIDS BY WEIGHT:
Approximately 97% solids (liquids mixed with aggregate)

VOLATILE ORGANIC CONTENT:
negligible

STANDARD COLORS:
Gray and red

RECOMMENDED FILM THICKNESS:
1/8" – 3/16"

COVERAGE PER KIT:
The standard kit will yield 41 square feet @ 1/8"

PACKAGING INFORMATION
Urethane Cement: (8.3# part A in a gallon can not full + 9.75# part B in a gallon can not full + 1 bags blended aggregate at 30#)

MIX RATIO:
8.3# part A + 9.75# part B + 30# aggregate blend

SHELF LIFE:
6 months for liquids in unopened containers/3 months for aggregate unopened

FINISH CHARACTERISTICS:
Slightly textured/rough finish

COMPRESSIVE STRENGTH:
7,800 psi

TENSILE STRENGTH:
1.100 psi

ADHESION:
400 psi @ elcometer (concrete failure, no delamination)

FLEXURAL STRENGTH:
3,500 psi

HARDNESS:
Shore D = 80 typical

THERMAL SHOCK RESISTANCE:
After a seven day cure, samples were held at 5^0C for 15 hours and then immediately exposed to 100^0C water. This cycle was repeated four times. The samples were then held at 5^0C for 15 hours and then immediately exposed to steam for 5 minutes. After the thermal cycle and steam exposure, the surfaces were examined for cracks or damage and the bond strength was tested. The bond test before and after the thermal and steam exposure was greater than 400 psi and there was no damage to the exposed surface observed.

HOT OIL TESTING:
Hot cooking oil at 220^0C was placed on a sample in a pool on the surface and allowed to cool to room temperature. No surface damage was apparent and adhesion of the sample was unaffected.

IMPACT RESISTANCE:
60 in. lbs

ABRASION RESISTANCE:
5mg loss

VISCOSITY
When mixed with the part C aggregate, it forms a pourable slurry.

DOT CLASSIFICATIONS:
Not Regulated

HEAT RESISTANCE:
Can withstand up to 300F degrees dry heat exposures

CURE SCHEDULE: (70°F)
pot life – (150 gram mass) …..……..……..…….... 15-20 minutes
tack free (dry to touch) ……..……..…….....6-8 hours
light foot traffic...……...……...…….... 12-14 hours
full cure (heavy traffic)... ...……..……...…….....3-5 days

APPLICATION TEMPERATURE:
45-85 degrees F with relative humidity below 85%.)

PRIMER:
None normally required.

TOPCOAT:
Optional.

CHEMICAL RESISTANCE TESTING:
Spot testing per ASTM D1308 for Mustard, Ketchup, Lactic acid, vinegar, and lemon juice were performed and no physical damage to the exposed surface was observed. In 24 hour immersion testing, the following results were observed..

CHEMICAL EXPOSURE	PERFORMANCE
10% acetic acid	passed
30% nitric	passed
Sodium Hydroxide 50%	passed
Sulfuric Acid 30%	passed
Xylene	passed

LIMITATIONS:
Color stability or gloss may be affected by high humidity, low temperature, chemical exposure or lighting such as sodium vapor lights.
Proper mixing is important for product performance.
High heat exposure may discolor the surface.
Colors may vary from batch to batch. Therefore, use only product from the same batches for an entire job. *This product is not UV color stable.
Always apply a suitable test area to evaluate the product performance and suitability prior to undertaking the entire project. Samples are available upon request.
Mixtures of chemicals and applications with exposures to chemicals at elevated temperatures should be thoroughly evaluated before applying.
Substrate temperature must be 5°F above dew point.
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.

TECHNICAL DATA- EC253X
Pro Commercial/Industrial Novolac Topcoat
ACID/CHEMICAL RESISTANT COLORED NOVOLAC EPOXY SEAL

PRODUCT DESCRIPTION:
EC253X is a two component colored high solids novolac epoxy coating designed for application where splash and spills of acids, chemicals, and solvents occur.

RECOMMENDED FOR:
Recommended for a high build topcoat for traffic areas, chemical troughs and curbs as well as tanks and chemical spill areas for cement masonry or brick.

SOLIDS BY WEIGHT:
96% (+/- 1%)

SOLIDS BY VOLUME:
94% (+/- 1%)

VOLATILE ORGANIC CONTENT:
0.40# per gallon (mixed)

STANDARD COLORS:
Light gray, medium gray, and tile red

RECOMMENDED FILM THICKNESS:
16-18 mils

COVERAGE PER GALLON:
90-100 square feet per gallon @ 16-18 mils

PACKAGING INFORMATION:
3 gallon kit (volume approximate)
15 gallon kits (volume approximate)

MIX RATIO:
10.15 pounds (1 gallon) part A to 4.2 pounds (.50 gallons) part B (volumes approx.)

SHELF LIFE:
1 year in unopened containers

FINISH CHARACTERISTICS:
Gloss (>40 at 60 degrees @ Erichsen glossmeter)

FLEXURAL STRENGTH:
9,610 psi @ ASTM D790- 1/2"X1/2" bars span 4"

COMPRESSIVE STRENGTH:
9,900 psi @ ASTM D695

TENSILE STRENGTH:
6,680 psi @ ASTM D638

ADHESION:
425 psi @ elcometer (concrete failure, no delamination)

ULTIMATE ELONGATION:
4.7%

HARDNESS:
Shore D = 88

GARDNER VARIABLE IMPACTOR:
50 inch pounds direct – passed

ABRASION RESISTANCE:
Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 20 mg loss

VISCOSITY:
Mixed = 2200-2700 cps (typical)

DOT CLASSIFICATIONS:
Part A "not regulated"
Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

HEAT DEFLECTION TEMP:
115.5 degrees F, ASTM D648

CURE SCHEDULE: (70 °F)
pot life – (1 1/2 gallon volume) ……...……..25-35 minutes
tack free (dry to touch) …….....5-7 hours
recoat or topcoat....……...….....5-10 hours
light foot traffic...……...…….....10-18 hours
full cure (heavy traffic)... ……..……...….....2-7 days

APPLICATION TEMPERATURE:
60-95 degrees F with relative humidity below 90%

CHEMICAL RESISTANCE:

REAGENT	RATING
xylene	D
1,1,1 trichloroethane	C
MEK	C
methanol	C
ethyl alcohol	C
skydrol	C
10% sodium hydroxide	E
50% sodium hydroxide	E
10% sulfuric acid	E
70% sulfuric acid	C
10% HC1 (aq)	D
5% acetic acid	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:
Recommended EC257X

TOPCOAT:
None recommended

LIMITATIONS:
*Color stability or gloss may be affected by environmental conditions such as high humidity, low temperature or chemical exposure.
*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
*This product is not UV color stable and exposure to lighting such as sodium vapor lights may cause discolorations.
*Mixtures of chemicals and applications with exposures to chemicals at elevated temperatures should be thoroughly evaluated before applying coating. A test patch is recommended.
*Product can develop surface irregularities in leveling in combination to some chemical contamination or substrate compositions.
*Substrate temperature must be 5 °F above dew point.
*For best results, apply with a 1/4" 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 limitation of our liability and warranty.