



Insl-x Industrial Coatings – 101 Paragon Drive -Montvale, NJ 07645 · 800-225-5554 · FAX 888-248-2143

Insl-Tron™ 2-Component Low VOC Acrylic Aliphatic Polyurethane AU-05XX Series

Type	Sheen	Theoretical Spread Rate	Recommended Application	Thinner	Clean Up
Aliphatic Acrylic Urethane	High Gloss & Semi-Gloss	350-500 Sq. Ft. Per Gallon*	Brush, Roller or Spray	TH-0003	TH-0003
Touch Dry Time: 2 Hrs @ 77°F		Min Recoat: 12 Hrs. @77°F		Max Recoat : 14 Days (with AU05XX Series)	

PRODUCT NAME: AU-05XX Series Insl-Tron™ 2-Component Low VOC Acrylic Aliphatic Polyurethane	Insl-Tron™ Low VOC Acrylic Aliphatic Polyurethane is a multi-use, two-component low VOC Aliphatic Acrylic Polyurethane that provides excellent gloss and color retention, as well as excellent abrasion, chemical, and solvent resistance. It may be used anywhere a performance urethane is necessary for interior or exterior applications. This product is ideal as a non-sacrificial anti-graffiti coating in clear or pigmented colors when using a commercial Graffiti Remover. Complies with or surpasses formulation and performance requirements of MIL-C-85285. This is a two-component product that must be mixed with the proper converter prior to application. Mix one short filled gallon of A with one short filled quart of AU55BG (4:1). THIS PRODUCT IS NOT FOR IMMERSION SERVICE.	
WHERE TO USE:	Properly Prepared and Primed Steel, Iron, Non-Ferrous, Concrete, and Fiberglass	Typical market segments include Food and Beverage Processing, Industrial Maintenance, Paper and Pulp Processing, Transportation, Industrial Flooring, General Metal Finishing / Fabrication, Chemical Processing, Commercial Structures, Tank Exteriors and other areas requiring a long life, performance urethane. Coated surfaces may discolor under tires due to plasticizer migration.
SURFACE PREPARATION:	The performance of this product is directly dependent upon the degree of surface preparation employed. Removal of all contaminants should be completed in accordance with SSPC-SP1 followed by specific preparation methods as indicated on primer data sheets. Rust and mill scale must be removed from carbon steel and iron substrates as outlined on specific primer data sheets. Surface to be coated must be clean, sound and dry. Fresh concrete must age at least thirty days before coating. All oil, grease, release agents, curing compounds, concrete hardeners, laitance and other contaminants must be removed before coating. After the concrete floor has been prepared and allowed to dry (measuring 10% or less with moisture meter), apply one coat of Insl-Tile EP5500 100% Epoxy Pre-Primer at 600-800 sq. ft. per gallon (1.5 mils) following label instructions. New Surfaces Steel: Blast selection and choice of primer will be dependent on the severity of exposure and degree of protection required. Maximum protection will be attained using an SSPC- SP-10 Near White Metal Blast followed by 1 coat of EP 50XX Epoxy Primer and 1 or 2 coats of AU 05XX Aliphatic Urethane. Please contact your Insl-X representative or technical service for recommendations on less severe applications. Concrete: All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Acid etch or abrasive blast all slick, glazed concrete or concrete with laitance. For acid etching, follow all manufacturers directions and safety instructions. Rinse and neutralize thoroughly and allow to dry. Prime concrete with 1 coat EP 5500 Pre-Primer followed by 1 coat of EP 53XX Polyamide Epoxy or ATP Series. Galvanized and Non Ferrous Metals: Solvent clean all surfaces. Apply 1 coat of Insl-X WCP2000 Bonding Primer or EP 50XX Epoxy Primer. Previously Painted Surface: Can be applied over old thermoset finishes in good condition. Test patches are recommended to check for wrinkling or lifting of existing coatings. If lifting occurs, EP 5500 Pre-Primer may be used over all existing coatings as a barrier coat.	
APPLICATION:	Mix the "A" and "B" component thoroughly before mixing; the use of a drill mixer at low speed will best accomplish this task. Add the full contents of the quart size "B" component to the "A" and thoroughly mix the two together. Allow 15 minutes @77°F induction or "sweat-in" time prior to applying the mixed product to the substrate. Do not apply Insl-Tron™ Acrylic Aliphatic Polyurethane if air or surface temperatures are below 50°F or above 95°F, or in relative humidity levels greater than 85%, or if surface or air temperatures are within 5 degrees of the dew point. Product should be allowed to dry tack free prior to air or surface temperatures being within 5 degrees of the dew point. This product is formulated to be applied without thinning. Do not thin if this would result in the product exceeding any VOC regulations in effect where it is being applied. If necessary, thin with Insl-x TH-0003 Insl-Tron Thinner only. SEE THINNING RECOMMENDATIONS ON PAGE THREE. The dry and recoat times may be reduced by using up to 2 ounces per gallon of Insl-x AC-0040 Catalyst. Usable pot life will be reduced to 2 hours @ 77°F if accelerator is used. The dry and recoat times may be slowed by using up to 2 ounces per gallon of Insl-x Accelerator. Airless Spray (Preferred Method): Tip range between 13 and 17 thousandths. Total fluid output pressure at tip should not be less than 2400 psi. Air Spray (Pressure Pot): DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.	

TAB #03
Insl-Tron™ 2-Component Low VOC
Acrylic Aliphatic Polyurethane
AU-05XX Series
Rev. 7/09

	<p>NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. If material begins gelling, immediately flush equipment as product has reached pot life.</p> <p>Brush: Natural Bristle only. Use up to 1 pint per gallon Insl-x TH-6000 Retarder to increase open time.</p> <p>Roller: Industrial Cover with Phenolic core and a nap size of ¼" to ½". Use up to 1 pint per gallon Insl-x TH-6000 Retarder to increase open time.</p>
*NOTE ON SPREAD RATE:	The actual spread rate will vary based upon numerous factors, including texture of the substrate, application method, waste, surface porosity and thinning. The Theoretical Spread Rate listed on this document has not taken into account these factors and is only based upon the volume solids of this product and the recommended wet film thickness when applied to a smooth substrate.
STORAGE:	12 months at 77°F in original unopened container. Prolonged storage at higher temperatures can shorten the shelf life. Store in dry, shaded area, away from heat and ignition sources. Protect from frost.
TINTABILITY:	Insl-Tron™ Acrylic Aliphatic Polyurethane is available in 0500 Gloss Clear, 0510 Gloss White, 0520 Gloss Black, 0566 Gloss Tint Base, 0577 Gloss Deep Base, 0590 Gloss Neutral Base, 0576 SemiGloss Tint Base, 0587 SemiGloss Deep Base, and 0599 SemiGloss Neutral Base. Bases must be tinted with 144/844 Industrial Colorants ONLY. Special Colors are available in minimum batch quantity orders.
RESIN TYPE:	Aliphatic Acrylic Urethane
VOLUME SOLIDS:	White: 61.6% ± 1.0% Clear: 48.9% ± 1.0%
WEIGHT PER GALLON:	10.6 lbs. (varies with color)
MIX RATIO:	4:1 USE ONLY AU55BG Converter
INDUCTION TIME:	1 hr. @ 55°F, 15 min. @ 77°F, 5 min. @ 100°F
POT LIFE:	10 hrs. @ 55°F, 3-4 hrs. @ 77°F, 2.5 hrs. @ 100°F
FLASH POINT:	Mixed: 80°F. (TT-P-141, Method 4293)
SPECULAR GLOSS:	Gloss: 85+ units @ 60° Semi-Gloss: 55 - 65 units @ 60°
WET FILM THICKNESS:	3.2 to 4.6 mils
DRY FILM THICKNESS:	White: 2.0 to 2.8 mils Clear: 1.6 to 2.3 mils
<p>CAUTIONS: (These statements based upon a 4:1 mixture of AU0510 and AU55BG. Statements may vary from color to color. See specific label for actual precautions)</p>	<p style="text-align: center;">DANGER!</p> <p>FLAMMABLE LIQUID AND VAPOR. VAPOR AND SPRAY MIST HARMFUL. OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION, EFFECTS MAY BE PERMANENT. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. HARMFUL OR FATAL IF SWALLOWED. CALL PHYSICIAN IMMEDIATELY.</p> <p>Contains: Aliphatic Polyisocyanates and Organic Solvents. Vapor and mist harmful. May be harmful if absorbed through skin. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS OR PRIOR REACTION TO ISOCYANATES MUST NOT BE EXPOSED TO VAPOR OR SPRAY MIST. Do not breathe vapor or spray mist. Wear an appropriate, properly fitted respirator (NIOSH approved) during application unless air monitoring demonstrates vapor/mist levels are below applicable limits. An airline respirator (NIOSH approved) is recommended. A vapor/particulate respirator (NIOSH approved) may be appropriate where airborne monitoring demonstrates vapor levels below ten times the applicable exposure limits. Follow manufacturer's directions for respirator use. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Keep away from heat, sparks and flame. Vapor may cause flash fire. Do not smoke. Extinguish all flames and pilot lights, turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.</p> <p style="text-align: center;">Use only with adequate ventilation.</p> <p>First Aid: If affected by inhalation of vapor or spray mist, move to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately.</p> <p>Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.</p> <p>DANGER – Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed, water-filled metal container.</p> <p>Warning: This product contains chemicals known to the state of California to cause cancer and birth defects, or other reproductive harm.</p> <p style="text-align: center;">Obtain and read the MSDS prior to using this product KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY</p>
VOC/VOS STATEMENT: (Mixed Product)	White, colors and bases contain a maximum of 340 grams of VOC/VOS per liter of coating. (2.8 pounds per gallon).
OTC CATEGORY:	This product is compliant under the Ozone Transport Commission regulations as an Industrial Maintenance Coating.

TAB #03
Insl-Tron™ 2-Component Low VOC
Acrylic Aliphatic Polyurethane
AU-05XX Series
Rev. 7/09

TEST DATA

Accelerated Weathering (ASTM G53) 1000 Hours 1 coat EP5065 Primer, 2 coats AU0510	95% Gloss Retention < 0.25 DE Color Change (CMC)
Salt Fog Resistance (ASTM B117) 2000 Hours (Same system as above)	Rust Breakthrough – 10 Rating Rust Area – 0.01%
Abrasion Resistance (ASTM D4060) Taber (CS-10 Wheel, 1000g load, 1000 cycles)	80 mg. loss
Dry Heat Resistance	200°F
Wet Heat Resistance	125°F
Adhesion (ASTM D3359)	5B
Flexibility (ASTM D1737)	Pass 1/4" Mandrel

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)

Fresh Water	Excellent
Salt Water	Excellent
Acids	Excellent
Alkalis	Excellent
Solvents	Excellent
Fuel	Excellent
Acidic Salt Solutions	Excellent
Alkaline Salt Solutions	Excellent
Neutral Salt Solutions	Excellent

QUALIFICATIONS

Meets MPI #78 & 105.
USDA Qualified for incidental food contact.
Meets Performance for MIL-C-85285

**SYSTEMS RECOMMENDATIONS
COMPATIBLE PRIMERS & INTERMEDIATES**

Primers: WCP2000, EP50xx, EP5500, DMP91x, MP90xx, Acrylic Block Filler, SXA110, ATP Series
Intermediates: MCO-111, EP58xx, EP54xx, EP53xx
Insl-Tron™ Acrylic Aliphatic Polyurethane is compatible with Insl-x Accelerator. See Accelerator Data Sheet for specific usage requirements.
For finishes other than listed above, or for usage in severe environmental conditions, please consult with Insl-x Coatings technical service.

WARRANTY

Insl-x warrants its products to be free from defects in materials and workmanship. Insl-x's sole obligation and the purchaser's exclusive remedy shall be limited, at Insl-x's option, to either replacement of nonconforming products or credit to the purchaser's account in an amount not greater than the original purchase price of the nonconforming products. Any claim under this warranty must be made by the purchaser, in writing to Insl-x, within ten (10) days of the purchaser's discovery of the claimed defect, but not later than the expiration of the applicable shelf life, or one year from the original delivery date, whichever is earlier. Purchaser's failure to notify Insl-x of any nonconformance as required shall bar the purchaser from recovery under this warranty.

Insl-x makes no other warranties, expressed or implied, such as merchantability or fitness for a particular purpose concerning its products. In no event shall Insl-x be liable for consequential or incidental damages.

Any recommendation or suggestion relating to the usage of products made by Insl-x, whether in the form of literature, data, or in response to specific inquiry, or otherwise is based upon information believed to be reliable; however the products and information are intended for use by skilled and knowledgeable purchasers, and is therefore for the purchaser to satisfy itself of the suitability of the products for its own specific use, and it shall be deemed that the purchaser has done so, at the sole discretion and risk. Variation in application conditions, ambient conditions or extrapolation of information may cause unsatisfactory results.

LIMITATION OF LIABILITY

Insl-x's liability on any claim, including claims based upon negligence, or strict liability for loss, or damage arising out of, connected with, or resulting from the use of products, shall in no case exceed the purchase price of the products directly giving rise to the claim. In no event shall Insl-x be liable for consequential or incidental damages.

THINNING RECOMMENDATIONS:

This product is formulated to be applied without thinning. Do not thin if this would result in the product exceeding any VOC regulations in effect where it is being applied.
DO NOT USE THINNERS OTHER THAN TH-0003 or TH-6000.

All high gloss surfaces can be slippery. Where non skid properties are required a Non-skid aluminum oxide additive such as Insl-x GX-1000 should be used. Silica sand can be used for foot traffic, but will "crush" under heavier loads. Coating will stain with prolonged exposure to brake fluid and some other solvents or in a kennel if exposed to animal waste. This staining will not affect the durability or protective qualities of the coating.

TAB #03
Insl-Tron™ 2-Component Low VOC
Acrylic Aliphatic Polyurethane
AU-05XX Series
Rev. 7/09

Insl-x Industrial Coatings – 101 Paragon Drive -Montvale, NJ 07645 - 800-225-5554 · FAX 888-248-2143

**Insl-Tron™ 2-Component
Low VOC Acrylic Aliphatic Polyurethane
AU-05XX Series**

NOTES:

PACKAGING:

Gallon Kits Only

1Gallon Container Component "A" (4 per case)
+ 1 Quart Container Component "B" (4 per case) (both short filled)