



UClad-LV®

SELF-LEVELING, HIGH-BUILD, EPOXY FLOOR COATING

UClad-LV Fact Sheet

UClad-LV is a two component epoxy resin, containing no solvents. UClad-LV is designed for use in both interior and exterior (if top coated with UGloss, UGloss-AF or Overall) applications. UClad-LV is recommended for several basic applications:

- As a base resin used as a coating, to encapsulate wear resistance aggregates and as a lock coat.
- As an overlay with aggregate, to provide traction and wear resistance to concrete floors. Filled with UTex, URock, sand or other suitable wear resistant filler.

Physical Properties

Solids by Volume: Mixed=53% (± 2%)

Volatile Organic Content: Less than 3.8 pounds per gallon

Recommended Film Thickness: 8-12 mils per coat wet thickness

Coverage per Gallon: 385 square feet @ 3-5 mils wet

Mix Ratio: 2 parts Part B to 1 part Part A by volume

Packaging Information: This product is available in 3 gallon kits as well as 3 and 1.5 gallon material only packs

Shelf Life: 1 year

Finish Characteristics: High gloss
(80-100 at 60°@Erichsen glossmeter)

Abrasion Resistance: Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles=0.08g loss

Impact Resistance: Gardner impact=160 in. lb. (passed)
(direct and reverse)

Hardness: Shore D =70-80

Flexibility: No cracks on a 1/8 in. mandrel

Adhesion: 360 psi@elcometer
(concrete failure, no delamination)

Cure Schedule: (70°F)

Pot life.....	35-50 minutes
Recoat or topcoat	4-6 hrs
Light foot traffic.....	12-24 hrs
Full cure (heavy traffic).....	5 days

Application Temperature: 50-90° F

Viscosity: Mixed=4000-6000 cps

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 acid	D
10% hydrochloric acid	D
20% nitric acid	C
ethylene glycol.....	D

Rating key:

A – not recommended, B – 2hr term splash spill, C – 8 hr term splash spill, D – 72 hr immersion, E – long term immersion. NOTE – extensive chemical information is available through your sales representative.

Primer: Any UCoat Standard finish can be coated.

DOT Classification:

- Part 1 "Flammable Liquid N.O.S., 3, UN1993, PGIII"
- Part 2 "Flammable Liquid N.O.S., 3, UN1993, PGIII"

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UClad-LV[®] Part A

SELF-LEVELING, HIGH-BUILD, EPOXY FLOOR COATING

HMIS Codes: **H** **F** **R** **P**
 2 1 0 H

Section 1 - Manufacturer Identification

Manufacturer's Name: UCoat It America, LLC.
Address: 1797 Atlantic Blvd., Auburn Hills, MI 48326
Date Revised: 09-1-11

Emergency Phone: Chemtrec - 1(800) 424-9300
Information Phone: 1(800) 826-2848
Name of Preparer: UCoat It America, LLC.

Section 2 - Hazardous Ingredients/SARA III

Hazardous Components	CAS Number	Occupational Exposure Limits			Content
		OSHA TLV	OSHA STEL	PEL	
Bis A Epoxy Resin	25068-38-6	N/E	N/E	N/E	0-80%
Magnesium silcate	14807-96-6	N/E	N/E	N/E	0-20%
Glycidyl Diluent	2461-15-6	N/E	N/E	N/E	0-20%
Epichlorohydrin and Bis A reaction products	025085-99-8	N/E	N/E	N/E	0-5%
Cresyl glycidyl ether	002210-79-9	N/E	N/E	N/E	0-2%
Iron Oxide	1309-37-1	N/E	N/E	N/E	0-10%
Titanium Dioxide	013463-67-7	10mg/m3	N/E	10mg/m3	0-10%
Carbon Black	001333-86-4	3.5 mg/m3	N/E	3.5mg/m3	0-10%

N/E= Not Established

California Propostion 65 Ingredients					
Phenyl glycidyl ether	122-60-1				
Cresyl glycidal ether	002210-79-9				<2.0%

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

Cresyl glycidal ether	002210-79-9				<2.0%
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Section 3 - Physical/Chemical Characteristics

Boiling Range: ND

Volatile Organic Content: 113g/l Part A only (VOC)

USA EPA method 24: 139g/l Part A and Part B

Freezing Point: (c): N/A

Vapor Pressure @20c: N/A

Vapor Density: > Air

Odor Threshold: N/A

Appearance and Odor: Pigmented Liquid

N/A = Not Available
N/D = Not Determined
Ca. = Approximate

Water/Oil Distribution

Coefficient: N/A

Solubility in Water: Negligible

Specific Gravity @20c: 10.9 lbs/gal

ph: N/A

Evaporation Rate: N/A

Odor: Slight

Section 4 - Fire and Explosion Hazard Data

Flammable Limits in Air by Volume: Lower: N/A Upper: N/A

Flash point: 93°C (200°F)

Method Used: Pensky Martin C.C.

Extinguishing Media: Spray water, Foam, Alcohol Foam, CO₂, Dry Chemical

Special Firefighting & Unusual Hazards: Move conatiners from area if it can be done without risk. Cool fire exposed containers with water from side. As in any fire, wear NIOSH/MSHA approved, pressure demand self-contained breathing apparatus and full protective gear.



UClad-LV[®] Part A

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Section 5 - Reactivity Data

HMIS Hazard Rating No. 0

Stability: Stable

Conditions to Avoid: Strong acids in bulk

Incompatibility (materials to avoid): Oxides of carbon; aldehydes and acids. Decomposition and combustion products may be toxic.

Hazardous decomposition or byproducts: May form toxic chemicals, carbon dioxide, carbon monoxide, oxides of nitrogen, HCN and HDI

Section 6 - Health Hazard Data

Inhalation health risks and symptoms of exposure: Vapors from product may cause irritation to the nose, throat and respiratory tract.

Skin and eye contact health risks and symptoms of exposure: Skin: Product may cause irritation, redness and discomfort which is transient. Eyes: Product may cause severe irritation to the eyes.

Skin absorption health risks and symptoms of exposure: Can cause reddening, swelling, rash, scaling, or blistering. Overexposure may cause sensitization resulting in reaction to contact of small amounts.

Ingestion health risks and symptoms of exposure: Not expected to be a relevant route of exposure. Product may be slightly toxic if ingested. Can cause gastrointestinal irritation, nausea, vomiting, diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Product can cause corrosive action to mucous membranes and digestive tracts.

Medical conditions generally aggravated by exposure: Respiratory conditions or other allergic response

Emergency and first aid procedures: EYES: Flush eyes with water for at least fifteen minutes and consult a physician. SKIN: For extreme exposure use a safety shower immediately, wash affected area with soap and water and remove contaminated clothing promptly. INHALATION: Remove victim to fresh air area and administer oxygen if necessary. Obtain medical assistance. Asthmatic type symptoms may occur immediately or be delayed for several hours. Treatment is symptomatic. INGESTION: Do not induce vomiting, keep person warm and consult a physician immediately. Give 1-2 cups of milk or water to drink.

Section 7 - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Avoid contact with skin or eyes. Ventilate area, then eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, clean up residue with absorbant material.

Waste disposal method: Handle disposal of material in a manner in accordance with local, state and federal laws.

Precautions to be taken in handling and storing: Store in cool dry place, seal all partially used containers, wash with soap and water before eating, drinking, smoking or using toilet facilities. Mixed materials contain hazards of all the components, therefore, read the MSDS's of all the components prior to using materials. Properly label all containers. Keep material away from all sources of ignition.

Other precautions: Avoid all skin contact, avoid breathing vapors generated from the material. Observe conditions of good general hygiene and safe working practices. Contaminated leather articles can not be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to reuse. Wear appropriate safety equipment and respirator at all times when ventilation is not sufficient to control vapors. Observe OSHA regulations for respirator use (29CFR 1910.134). When spraying material avoid exposure to all mists generated by using air supplied respirator.

Section 8 - Control measures

Respiratory protection: Use a NIOSH approved respirator as required to prevent over exposure to vapor in accordance with 29 CFR 1910.134. Engineering or administrative measures should be taken to reduce the risk and exposure. Use a positive pressure supplied air respirator when exceeding TLV's or if HDI monomer concentrations exceed acceptable limits or when spraying material.

Ventilation: Exhaust ventilation sufficient to keep airborne concentrations of HDI below their TLV and MGL maximum. Refer to Patty's Industrial Hygiene and Toxicology - Volume 1 (3rd edition) Chapter 17 and Volume III (1st edition) Chapter 3 for details.

Protective gloves: Impervious - Neoprene or Rubber

Eye protection: Splash goggles or glasses with side shields. Do not wear contact lenses when using this product.

Other protective clothing or equipment: Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material.

Work/hygienic practices: Observe good general hygienic practices.

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UClad-LV[®] Part B

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HMIS Codes: **H** **F** **R** **P**
 0 1 0 H

Section 1 - Manufacturer Identification

Manufacturer's Name: UCoat It America, LLC.
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Information Phone: 1(800) 826-2848
Name of Preparer: UCoat It America, LLC.

Section 2 - Hazardous Ingredients/SARA III

Hazardous Components	CAS Number	Occupational Exposure Limits			Content
		OSHA TLV	OSHA STEL	PEL	
Proplene Glycol n-butyl ether	5131-66-8	N/A	N/A	N/A	1-5%
Triethanolamine	102-71-6	5mg/m3	N/A	N/A	<10%
Water	7732-18-5	N/A	N/A	N/A	>=1%
Polyacrylate Resin	710313-77-2	N/A	N/A	N/A	>=1%

California Proposition 65 Ingredients
None

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)
None

Section 3 - Physical/Chemical Characteristics

Boiling Range: 100

Percent Volatile : <10 g/L (VOC)

Freezing Point: (c): 0

Vapor Pressure @20c: N/D

Vapor Density: > Air

Odor Threshold: N/A

Appearance and Odor: Colorless White Liquid

Water/Oil Distribution

Coefficient: N/A

Solubility in Water: Yes

Specific Gravity @20c: 1.09

ph: N/A

Evaporation Rate: Less than ether

Odor: Faint

N/A = Not Available
N/D = Not Determined
Ca. = Approximate

Section 4 - Fire and Explosion Hazard Data

HMIS Hazard Rating No.1

Flash point: 93°C (200°F)

General Hazard: Decomposition and combustible products may be toxic.

Auto-Ignition Temp: N/A

Flammable Limits in Air by Volume: Lower: N/A Upper: N/A

Extinguishing Media: Use water fog, carbon dioxide or Dry Chemical

Special Firefighting & Unusual Hazards: Move containers from area if it can be done without risk. Cool fire exposed containers with water from side. As in any fire, wear NIOSH/MSHA approved, pressure demand self-contained breathing apparatus and full protective gear.

Section 5 - Reactivity Data

HMIS Hazard Rating No. 0

Stability: Stable

Conditions to Avoid: See incompatibility section

Incompatibility (materials to avoid): Heat, flame and contact with strong oxidizing agents



UClad-LV[®] Part B

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Section 6 - Health Hazard Data

HMIS Hazard Rating No. 0

Primary Route of Entry: Eye and skin contact, breathing and ingestion

Skin contact: Prolonged or repeated exposure may cause skin irritation and redness. Skin sensitization or allergic reaction may occur in some individuals.

Eyes: Product may cause severe irritation to the eyes.

Inhalation: Inhalation is unlikely due to low vapor pressure. If misted or handled at elevated temperatures, high concentrations may cause respiratory tract irritation.

Ingestion: Not expected to be a relevant route of exposure although it may cause nausea, vomiting, diarrhea, headache and drowsiness. Can result in serious damage to the mouth and stomach.

Section 7 - Toxicity Information

HMIS Hazard Rating No. 0

Primary Route of Entry: Eye and skin contact, breathing and ingestion.

Effects of Overexposure

Inhalation health risks and symptoms of exposure: Cause narcotic effects and headaches with overexposure.

Eye and Skin contact: Contact can cause severe irritation and burns.

Ingestion health risks and symptoms of exposure: May cause permanent damage to the mouth, throat and stomach.

Emergency and first aid procedures: EYES: Flush eyes with water for at least fifteen minutes, lifting lower and upper eye lids throughout and consult a physician. SKIN: Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothes before reuse. INHALATION: Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance. INGESTION: Do not induce vomiting, keep person warm and consult a physician immediately. If vomiting occurs spontaneously keep head below hips to prevent aspiration of liquids into lungs. Give one glass of water unless victim is drowsy, convulsing or unconscious.

Section 8 - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Avoid contact with skin or eyes. Ventilate area, then eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, clean up residue with absorbent material.

Waste disposal method: Handle disposal of material in a manner in accordance with local, state and federal laws.

Precautions to be taken in handling and storing: Store in cool dry place, seal all partially used containers, wash with soap and water before eating, drinking, smoking or using toilet facilities. Mixed materials contain hazards of all the components, therefore, read the MSDS's of all the components prior to using materials. Properly label all containers. Keep material away from all sources of ignition.

Other precautions: Avoid all skin contact, avoid breathing vapors generated from the material. Observe conditions of good general hygiene and safe working practices. Contaminated leather articles can not be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to reuse. Wear appropriate safety equipment and respirator at all times when ventilation is not sufficient to control vapors. Observe OSHA regulations for respirator use (29CFR 1910.134). When spraying material avoid exposure to all mists generated by using air supplied respirator.

Section 9 - Control measures

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up heavy vapors.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggle/safety glasses with side shields and impervious gloves. Wear clothing with long sleeves and pants. In operations where mists can be generated or the exposure limits for crystalline silica exceeded, wear a NIOSH/MSHA approved dust/ fume respirator selected by a technically qualified person for the specific work conditions. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard. Confined spaces, room or tanks are areas where concern for TLV's is especially important. Reference OSHA regulations CFR 29 1910.134 for recommended respiratory protection.

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