



- *Installation Instructions*
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*Do-it Yourself Floor Coatings  
for a durable protective finish*



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**Distributed by  
UCoat It America, LLC  
32106 Woodward Ave  
Royal Oak, MI 48073**

## **Product Description**

UClad is a two-component 100% solids epoxy colored coating ideal for areas where a high build colorfast, impact resistant floor is desired. This self-leveling product is easily used to repair spalled and pitted areas of concrete floors and is also well-suited for interior areas.

### UClad

- Has no odor
- Has very little volatile organic compounds
- Has no combustible fumes
- Is safe to the environment

### Limitations:

- Color Stability may be affected by environmental conditions such as high humidity or chemical exposure.
- This product is not UV stable but has very good resistance to color change for an epoxy product. Therefore, topcoating with UGloss-AF is recommended.
- This product must be applied using the UCoat system as a primer. UClad may not be applied directly to bare concrete.
- Colors may vary from batch to batch. Use product from the same batch to ensure consistent color on your floor.

## **Mixing and Application Instructions**

1. Store product in a dry place between 60° and 90°F. Keep from freezing.
2. Product should be at normal room temperature (60° and 90°F) before using.
3. Kits are pre-measured and should be mixed in their entirety. Combine both parts and mix thoroughly with stirring stick for at least one minute. If smaller quantities are to be used, be sure to maintain the proper ratio of 2 parts A to 1 part B.
4. The mixed material is applied by pouring it onto the floor and squeegeeing the material until evenly distributed to the appropriate thickness. UClad should then be backrolled with a 3/8" nap roller until smooth. Appropriate footwear is extremely important to avoid leaving marks or dirt in the coating. Clean, dry, golf spikes are recommended for best results. Temperature and humidity must remain within the recommended ranges during application and flash cure (approx. 2hrs.)
5. Pot life of product is 20-30 minutes after mixing components. Shelf life of un-mixed product is 1 year.
6. When applying multiple coats, be sure that previous coats have flash cured and are dry to the touch. Press the coating with your thumb to test it and verify that no fingerprint is left. If no impression appears, you may proceed with re-coating. Always remember that colder temperatures will lengthen curing times.
7. Cleanup: Use soap and water. Use solvent only if necessary.
8. Floor maintenance: Always test any floor cleaning products on an inconspicuous area to make sure they do not affect the UClad surface. We recommend UClean for regular floor care.
9. Use of the floor should be restricted to light traffic and non-harsh chemicals, and it is recommended that the floor remain dry until fully cured. ✎

## Product Description

UCIad is a two-component 100% solids epoxy colored coating ideal for areas where a high build colorfast, impact resistant floor is desired. This self-leveling product is easily used to repair spalled and pitted areas of concrete floors and is also well-suited for interior areas.

## Physical Properties

### Solids by Weight:

Mixed = 100% ( $\pm 1\%$ )

### Solids by Volume:

Mixed = 100% ( $\pm 1\%$ )

### Volatile Organic Content:

Nearly zero pounds per gallon

### Recommended Film Thickness:

12-30 mils per coat wet thickness

### Coverage per Gallon:

50-130 square feet @ 12-30 mils wet

### Mix Ratio:

1 Gallon Part B to  $\frac{1}{2}$  Gallon Part A by volume  
(2:1)

### Packaging Information:

This product is available in 3 gallon kits as well as  $1\frac{1}{2}$  gallon and 3 gallon material only packs

### Shelf Life:

1 year

### Finish Characteristics:

Gloss (70-95 at 60° @ Erichsen glossmeter)

### Abrasion Resistance:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 32 mg loss

### Impact Resistance:

Gardner variable impactor = 50 in.lb. direct (passed)

### Hardness:

Shore D = 80

### Flexural Strength:

5,400 psi @ ASTM D790 -  $\frac{1}{2}$ " x  $\frac{1}{2}$ " bars span 4"

### Yield Compressive Strength:

9,100 psi @ ASTM D695 -  $\frac{1}{2}$ " x  $\frac{1}{2}$ " bars

Tensile Strength: 4,800 psi @ ASTM D638 - testing dimensions F=2.25", W=0.500", T=0.125", D=4.5" and rate=0.2"/minute.

### Cure Schedule: (70°F)

Pot life . . . . . 30-50 minutes

Tack free . . . . . 5-8 hours

Recoat or topcoat . . . . 8-12 hours

Light foot traffic . . . . . 12-14 hrs

Full cure (heavy traffic) . . . 2-7 days

### Application Temperature:

60-90° F (Relative humidity <85%)

### Viscosity:

Mixed = 1300-2300 cps (typical)

### Chemical Resistance:

Reagent	Rating
Xylene . . . . .	C
Trichloroethylene . . . . .	B
Methanol . . . . .	A
Ethyl Alcohol . . . . .	B
Skydrol . . . . .	B
10% sodium hydroxide . . . . .	E
50% sodium hydroxide . . . . .	D
10% sulfuric acid . . . . .	C
70% sulfuric acid . . . . .	A
10% hydrochloric acid . . . . .	C
Acetic acid 5% . . . . .	B

### 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 suitable UCoat Standard finish can be coated.

### DOT Classification:

Not regulated

Part A "Corrosive Liquid N.O.S., 8, UN1760, PGIII"

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

## Section 1 - Manufacturer Identification

**Manufacturer's Name:** UCoat It America, LLC.  
**Address:** 1911 Bellaire, Royal Oak, MI 48067  
**Date Revised:** 01-01-98

**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

Occupational Exposure Limits		Vapor Pressure			mm Hg@Temp	Weight Percent
Hazardous Components	CAS Number	OSHA PEL	ACGIH TLV	OSHA STEL		
Benzyl Alcohol	100-51-6	None	None	None	1.0 @ 136°F	
3-Aminomethyl-3,5,5-Trimethyl Cyclohexane	2855-13-2	None	None	None	N/A	
Nonyl Phenol	25154-52-3	None	None	None	N/A	

No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## Section 3 - Physical/Chemical Characteristics

**Boiling Range:** 401°F - 560°F  
**Vapor Density:** N/A  
**Solubility in Water:** Negligible  
**Appearance and Odor:** Amber clear liquid with amine odor  
**Specific Gravity(H<sub>2</sub>O=1):** 1.0  
**Evaporation Rate:** N/A

## Section 4 - Fire and Explosion Hazard Data

**Flammable Limits**  
**in Air by Volume:** Lower: N/A Upper: N/A  
**Flash point:** 200°+F  
**Method Used:** SETA Flash  
**Extinguishing Media:** Foam, Alcohol Foam, CO<sub>2</sub>, Water fog

**Special Firefighting Procedures:** Toxic fumes will be evolved when this material is involved in a fire. A self-contained breathing apparatus should be available for fire fighters. Cool all fire-exposed containers with water.

**Unusual Fire and Explosion Hazards:** None Known.

## Section 5 - Reactivity Data

**Stability:** Stable  
**Conditions to Avoid:** Avoid contact with open flames and all sources of ignitions and sparks.  
**Incompatibility (materials to avoid):** Avoid contact with strong oxidizing agents, mineral acids, and epoxy resins in uncontrolled amounts.  
**Hazardous decomposition or byproducts:** CO, CO<sub>2</sub>, NOX.  
**Hazardous Polymerization:** Will not occur.

## Section 6 - Health Hazard Data

**Inhalation health risks and symptoms of exposure:** High concentrations of vapors can cause irritation to the respiratory tract, nausea, and dizziness.

**Skin and eye contact health risks and symptoms of exposure:** Will cause burns to the skin and eyes. High vapor concentrations can cause severe irritation to the eyes.

**Skin absorption health risks and symptoms of exposure:** None known.

**Ingestion health risks and symptoms of exposure:** :Liquid can cause severe damage to mucous membranes if swallowed.

**Health Hazards (Acute and Chronic):** Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response.

**Carcinogenicity:** NTP? No          ARC monograph? No          OSHA regulated? No  
No listed ingredients of this product are regulated as carcinogens.

**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 while lifting upper and lower eyelids. Get immediate medical assistance. Skin: Flush skin with water for at least 15 minutes and remove all contaminated clothing immediately. Get medical attention if reddening or swelling occurs. Inhalation: Remove to fresh air if effects persist and administer oxygen if necessary. Ingestion: Do not induce vomiting. Dilute by giving water or milk to drink if victim is conscious. Get medical attention immediately.

**Section 7 - Precautions for Safe Handling and Use**

**Steps to be taken in case material is released or spilled:** Avoid contact with the material. Wear the appropriate safety equipment. Stop spill at source. Dyke area to prevent spreading. Pump liquid to salvage tank. Take up remainder with clay or other absorbent and place in disposal containers.

**Waste disposal method:** Dispose of material in a waste disposal site in accordance with local, state and federal laws.

**Precautions to be taken in handling and storing:** Avoid all skin contact. Avoid breathing vapors. Reseal all partially used containers. Properly label all containers. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices.

**Other precautions:** Mixed materials contain the hazards of all the components, therefore, read the MSDS sheets of all components prior to using material.

**Section 8 - Control measures**

**Respiratory protection:** NIOSH approved respirator protection required in the absence of proper environmental controls. For emergencies a self-contained breathing apparatus or a full face respirator is recommended.

**Ventilation:** Avoid breathing vapors. Ventilation must be sufficient to control vapors.

**Protective gloves:** Impervious - neoprene or rubber.

**Eye protection:** Splash goggles or glasses with side shields.

**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.

**Disclaimer**

The information contained herein is based on the data available to us and is believed to be accurate. However UCoat It makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. UCoat It assumes no responsibilities for injury from the use of this product.

# Material Safety Data Sheet

UClad Part B (1 of 2)

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

## Section 1 - Manufacturer Identification

**Manufacturer's Name:** UCoat It America, LLC.  
**Address:** 1911 Bellaire, Royal Oak, MI 48067  
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**Emergency Phone:** Chemtrec - 1 (800) 424-9300  
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**Name of Preparer:** UCoat It America, LLC.

## Section 2 - Hazardous Ingredients/SARA III

Occupational Exposure Limits				Vapor Pressure		Weight Percent
Hazardous Components	CAS Number	OSHA PEL	ACGIH TLV	OSHA STEL	mm Hg@Temp	
Modified Diglycidyl Ether of Bisphenol A	25068-38-6	None	None	None	1.0 @ 356°F	
Alkyl Glycidyl Ether	68609-97-2	None	None	None	N/A	
Reaction Products of Epichlorohydrin - Bisphenol A	25068-38-6	None	None	None	1.0 @ 356°F	
Pigment - Non-hazardous in liquid form		10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	5mg/m <sup>3</sup>	N/A	
Extender - Non-hazardous in liquid form		20mg/m <sup>3</sup>	20mg/m <sup>3</sup>	20mg/m <sup>3</sup>	N/A	
Extender - Non-hazardous in liquid form		None	5mg/m <sup>3</sup>	None	N/A	
Xylene*	1330-20-7	100 ppm	100 ppm	150 ppm	5.1 @ 68°F	
Proprietary Nonhazardous Additives	Unknown	None	None	None	N/A	

\* - Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. Xylene ACGIH STEL = 150 ppm.

## Section 3 - Physical/Chemical Characteristics

**Boiling Range:** 200°F to 279°F  
**Vapor Density:** N/A  
**Solubility in Water:** Negligible  
**Appearance and Odor:** Low viscosity liquid in varying colors  
**Specific Gravity(H<sub>2</sub>O=1):** 1.5  
**Evaporation Rate:** N/A

## Section 4 - Fire and Explosion Hazard Data

**Flammable Limits in Air by Volume:** Lower: N/A Upper: N/A  
**Flash point:** 200°+F  
**Method Used:** SETA Flash  
**Extinguishing Media:** Foam, Alcohol Foam, CO<sub>2</sub>, Dry Chemical, Water fog

**Special Firefighting Procedures:** Do not enter confined area without full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus. Cool all fire-exposed containers with water.

**Unusual Fire and Explosion Hazards:** None Known.

## Section 5 - Reactivity Data

**Stability:** Stable  
**Conditions to Avoid:** Avoid excessive heat or open flames.  
**Incompatibility (materials to avoid):** Can react vigorously with strong oxidizing agents and strong Lewis or mineral acids.  
**Hazardous decomposition or byproducts:** CO<sub>2</sub>, Aldehydes, Acids. Reactions with some curing agents can generate large amounts of heat.  
**Hazardous Polymerization:** Will not occur.

## Section 6 - Health Hazard Data

**Inhalation health risks and symptoms of exposure:** No guide for control known. However, exposure to heated vapors can cause irritation to the nose, throat, or mucous membranes.

**Skin and eye contact health risks and symptoms of exposure:** Skin - May cause irritation or allergic response. Eyes - May cause irritation but no corneal injury is likely.

**Skin absorption health risks and symptoms of exposure:** None known.

**Ingestion health risks and symptoms of exposure:** This material has a probable low acute oral toxicity.

**Health Hazards (Acute and Chronic):** Epoxy resins can cause sensitization by exposure through contact of high concentrations of vapor. Eyes: Injury is unlikely but strain for evidence of corneal injury.

**Carcinogenicity:** NTP? No ARC monograph? No OSHA regulated? No  
No listed ingredients of this product are regulated as carcinogens.

**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: Skin contact will normally cause no more than irritation, but wash affected area with soap and water and remove contaminated clothing promptly. Inhalation: Remove victim to fresh air area and administer oxygen if necessary. Ingestion: Low in toxicity, induce vomiting only if large amounts of material are ingested. Otherwise do not induce vomiting. In either case, consult a physician immediately.

**Section 7 - Precautions for Safe Handling and Use**

**Steps to be taken in case material is released or spilled:** Take up material with an absorbent such as clay and place in disposal containers. Flush area with water to remove residue.

**Waste disposal method:** Dispose of material in a waste disposal site 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 the hazards of all the components, therefore, read the MSDS sheets of all components prior to using material. Properly label all containers.

**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.

**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. General exhaust is usually sufficient in lieu of NIOSH respirator.

**Ventilation:** General exhaust is usually sufficient to control vapor and exposure hazards.

**Protective gloves:** Impervious - neoprene or rubber.

**Eye protection:** Splash goggles or glasses with side shields.

**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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