
DESCRIPTION

ECU-UVR is a two-component, 90% solids, VOC compliant, polyurethane coating that was developed as a topcoat. The product contains a UV protector. It provides a glossy finish with superior chemical resistance. It exhibits excellent physical properties. This system has been approved by the Canadian Food Inspection Agency (CFIA).

PRIMARY APPLICATIONS

- Marine protection for fiberglass, steel, concrete or wood
- UV-stable top coat
- Aircraft hangar floors
- Low temperature equipment
- Maintenance facilities
- Industrial shop floors
- Car washes or wash bays
- Secondary containment
- Cooling towers
- Bridges
- Wastewater treatment applications

ADVANTAGES

- Long pot life (30 min to 40 min)
- Displays fast cure times in thin film
- Respectable odor
- Superior chemical resistance (compared to standard epoxy)
- Abrasion resistant
- Non yellowing and good gloss retention
- Dense surface resistant to bacteria and humidity
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate
- VOC complaint in Canada and the United States

ELITE COATINGS CANADA INC.

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ECU-UVR: Technical Data Sheet: May 23, 2024

TECHNICAL DATA

Packaging litres / gal us			Color		
11.34 / 3	56.7 / 15		Part A	Part B	Mixture
Recommended Thickness			Light Yellow	Clear	Light Yellow
Primer: ECE	8 mils / 200 ft ² us gal		Shelf Life 12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.		
Topcoat on solid color: ECU-UVR	6-8 mils / 200-265 ft ² us gal				
Topcoat on vinyl flakes: ECU-UVR	8 - 12mils / 133-200 ft ² us gal				
Mix Ratio by volume					
A : B = 2 : 1					
*Please note that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.					
Pot life (150g)		Solids by weight %		Density (kg/litre)	
25-30 minutes 25°C		90.6		Part A	Part B
VOC (g/litre)		Recommended Thinner		1.06-1.08	1.15-1.17
33.7		xylene		Solids by weight %	
Viscosity @ 25°C (cps)	Part A	Part B	Mixture	Part A	Part B
	400-500	1750-3250	1100-1200	85.5	100
Waiting time between coats					
Min / 6-10 hours – max / 24 hours					
Foot Traffic	12 – 24 hours				
Light Traffic	48 hours				
Chemical Resistance	72 hours				
*Note: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.					

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PROPERTIES @ 23°C (73°F) 50% R.H.

Adhesion (concrete-primer) ASTM D4541	Water Absorption (%) ASTM D570	
500 psi (substrate ruptures)	0.2	
Hardness (Shore D) ASTM D2240	Tensile Strength (psi) ASTM D638	
75-78	6500-7600	
Compressive Strength ASTM D695	Elongation at break (%) ASTM D638	
9500 psi	100	
Abrasion Resistance, ASTM D4060 (CS17/1000 cycles/ 1000 g)	Flexibility, 1/8' Mandrel, ASTM D1737	
	Pass	
0.05 mg loss	Tear Strength (PLI), ASTM D2240	
Water Vapor Transmission, ASTM E96 Water procedure B Film 0.01 cm (0.004")	350	
	Fire Rating CAN/ULC S102 (Estimated on similar coating)	
1 perm	Flame Spread	2
	Smoke developed	94

SURFACE PREPARATION

The surface to be coated must be well primed. Remove dust, laitance, grease, oils, dirt, impregnating agents, waxes, foreign matter, any previous coatings, and disintegrated substances by mechanical means such as shot-blasting (BLASTRAC) or any other approved method to obtain an ICRI-CSP 3-4 profile. The compressive strength of the concrete must be at least 25 MPa (3625 lbs/in²) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in²).

MIXING

The products must be conditioned at a temperature between 18°C (65°F) and 30°C (86°F).

Mix the resin part (A) perfectly before pouring the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.

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APPLICATION

APPLICATION: Primer coat of ECE

Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating. Apply evenly and avoid creating excess pools of material.

APPLICATION: Finish coat of ECU-UVR

Apply the finish coat using a rubber squeegee and pass a roller to obtain a uniform coating. Apply evenly and avoid creating excess pools of material.

CLEANING

Clean all application equipment with your preferred cleaner. Once the product has hardened, it can only be removed by mechanical means. In case of skin contact, wash thoroughly with warm soapy water.

RESTRICTIONS

- Do not apply at temperatures below 10°C / 50°F or above 30°C / 86°F
- The relative humidity of the surrounding work environment during the application of the coating and throughout the curing process should not exceed 85%
- Substrate temperature must be 3 °C (5.5°F) above dew point measured
- Humidity content of substrate must be <4% when coating is applied
- Do not apply on porous surfaces where a transfer of humidity may occur during the application
- The application of this coating on an interior or exterior substrate without a moisture barrier is at risk of detachment (by hydrostatic pressure).

CHEMICAL RESISTANCE

CHEMICAL	RESULTS (25°C)
Acetic Acid 100%	C
Acetone	C
Ammonium Hydroxide 50%	RC
Benzene	C
Brine Saturated H ₂ O	R
Chlorinated H ₂ O	R
Clorox (10%) H ₂ O	R
Diesel Fuel	RC

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Gasoline	RC
Gasoline/5% MTBE	RC
Gasoline/5% Methanol	RC
Hydrochloric Acid 20%	R
Hydrochloric Acid 10%	NR
Hydraulic Fluid (oil)	RC
Isopropyl Alcohol	R
Lactic Acid	RC
MEK	RC
Methanol	R
Methylene Chloride	C
Mineral Spirits	RC
Motor Oil	R
MTBE	C
Muriatic Acid 10%	R
NaCl/H ₂ O 10%	R
Nitric Acid 20%	NR
Phosphoric Acid 10%	R
Phosphoric Acid 50%	NR
Potassium Hydroxide 10%	R
Potassium Hydroxide 20%	R, Dis
Propylene Carbonate	RC
Skydrol	C
Sodium Hydroxide 25%	R
Sodium Hydroxide 50%	R, Dis
Sodium Hypochlorite 10%	R
Sodium Bicarbonate	R
Stearic Acid	R

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Sugar/H ₂ O	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	RC
Toluene	R
1,1,1-Trichloroethane	C
Trisodium Phosphate	R
Vinegar/H ₂ O 5%	R
H ₂ O	R
H ₂ O 14 days at 82°C	R
Xylene	RC
<p>R = recommended/ little or no visible damage RC = recommended conditional/ some effect, swelling or discoloration C = Conditional/ Cracking-wash within one hour of spillage to avoid affects NR = Not recommended Dis = discolorative</p>	

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HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation. Consult the material safety data sheet for further information.

IMPORTANT NOTICE

The information and recommendations contained in this document are based on reliable test results according to Elite Coatings Canada Inc. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. Elite Coatings Canada Inc. assumes no legal responsibility for the results obtained in such cases. Elite Coatings Canada Inc. assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.

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