
DESCRIPTION

ECU-PTC is a two-component, 85% solids, VOC compliant, aliphatic polyurethane coating. This transparent coating offers excellent abrasion resistance and is used to protect substrates against UV. It displays excellent adhesion and can be applied at low and high temperatures. This system has been approved by the Canadian Food Inspection Agency (CFIA). **ECU-PTC** also meets FDA and USDA requirements.

PRIMARY APPLICATIONS

- Aircraft hangar floors
- Assembly areas
- Classrooms
- Clean rooms
- Laboratories
- Areas of light manufacturing
- Mechanical rooms
- Walkways

ADVANTAGES

- VOC compliant in Canada and the United States
- Long pot life
- Moderate cure times with excellent adhesion
- Long work life allows for a better product leveling and helps reduce roller marks
- Easy 1:1 mix ratio
- Excellent adhesive properties, allowing application on different substrates

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ECU-PTC: Technical Data Sheet: September 26, 2020

TECHNICAL DATA

Packaging litres / gal us		Color		
7.56 / 2	37.8 / 10	Part A	Part B	Mixture
Recommended Thickness		Light Yellow	Light Yellow	Light Yellow
Primer: ECE	8 mils / 200 ft ² us gal	Shelf Life		
Topcoat: ECU-PTC	8-10 mils / 160-200 ft ² us gal	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.		
Mix Ratio by volume				
A : B = 1 : 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)	VOC (g/litre)	Density (kg/litre)		
90 minutes 25°C	148	Part A	Part B	Mixture
Solids by weight %	Recommended Thinner	0.97-0.98	1.13-1.14	1.04-1.06
85%	xylene			
Waiting time between coats				
12 – 24 hours				
Foot Traffic	24 hours			
Light Traffic	48 -72 hours			
Chemical Resistance	7 days			
*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	3800			
Compressive Strength ASTM D695	Elongation at break (%) ASTM D638			
-	200			
Abrasion Resistance, ASTM D4060 (CS17/1000 cycles/ 1000 g)	Viscosity @ 25°C (cps)	Part A	Part B	Mixture
0.31 mg loss		250 – 350	150 – 250	200 – 300

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.

APPLICATION

APPLICATION: Primer coat of ECE

Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating.

APPLICATION: Finish coat of ECU-PTC

Apply the finish coat using a rubber squeegee and pass a roller to obtain a uniform coating or apply directly with a roller, rolling in both directions to ensure a uniform coating.

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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)

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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