

DESCRIPTION

EC-WUCT is a self-leveling, medium to heavy duty, three-components, water dispersed polyurethane-based cement and aggregate screed. Installed at a thickness between 10-15mils, **EC-WUCT** is designed to be used as a top-coat for the EC-WUSCL coating. **EC-WUCT** is also used to protect new or deteriorated floors and provides excellent resistance against compression, abrasion, impacts and chemicals. It meets all kinds of requirements such as durability and performance. EC-WUCT-30 can replace the **EC-WUCT** in situations where a UV-resistant topcoat is required. These coatings from Elite Coatings offer a choice of anti-slip finish, from very fine to very aggressive, by broadcasting silica sand into the wet coating. This system has been approved by the Canadian Food Inspection Agency (CFIA).

PRIMARY APPLICATIONS

- Food processing plants
- Dry or humid food sector
- Refrigerated area
- Freezers
- Refineries
- Waste treatment plants
- Laboratories
- Areas of light to heavy manufacturing
- Mechanical rooms
- Areas of high circulation
- Etc.

ADVANTAGES

- Low odor, allows for interior applications without harmful odors
- Thermal shock resistant when used in combination with EC-WUSCL
- Ideal for correcting and reinforcing concrete surfaces
- Superior compression strength
- Impact resistant
- Impermeable and seamless
- Seamless coves can be shaped
- Dense surface resistant to bacteria and moisture and easy to clean
- Excellent adhesive properties, allowing for application on a wide variety of substrates
- May apply several layers on itself with excellent adhesion

ELITE COATINGS CANADA INC.

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EC-WUCT: Technical Data Sheet: December 7, 2024

TECHNICAL DATA

Packaging (WUCT-CP/CP30)		Color			
		Part A	Part B	Part C	Mixture
Packaged A : B : C 1.5 kg A : 1.5 kg B : 1.5 kg C 4.5 kg (3.3 L) unit / 10 lb. (0.9 US gal.) unit		3 colors available: Terracotta Grey Beige	Amber	White	Same as Part A
Yield (EC-WUCT/EC-WUCT-30)		Mix Ratio by volume			
14 m ² (150 ft ²) per unit at 0.25 mm (10 mils)		A : B : C= Mix full units			
*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.		Application Temperature			
		7°C (45°F) min. / 30°C (86°F) max.			
Density (kg/litre) (EC-WUCT/EC-WUCT-30)		Shelf Life			
Part A	Part B	12 months in original unopened factory sealed container. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards. Protect from freezing!			
1.10 - 1.25	1.16 - 1.22				
Pot Life (150 g)		VOC (g/L) EC-WUCT/EC-WUCT-30	Hardness, Shore D		
20-25 minutes		< 10	80 (after 7 day cure)		
Waiting Time / Overcoatability (min / max)		12 hours minimum / 24 hours maximum			
Curing Schedule (EC-WUCT/EC-WUCT-30) @ 20°C		Foot Traffic		14-16 hours	
		Light Traffic		36-48 hours	
		Full cure and 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.					

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).

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MIXING

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

How to prepare part A and B for the system

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.

How to prepare the epoxy mortar A/B/C

Transfer the A/B mixture into a mixing tank for mortars (Ted Bough mixer – Kol mixer) and gradually incorporate (Part C) and mix for 2-3 minutes until all the aggregates are evenly incorporated. Immediately spread the mixture on the primed surface. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.
(Always mix full units)

APPLICATION

APPLICATION: Coat of EC-WUCT (smooth finish)

Apply a first coat of EC-WUCT at a thickness of 10 mils using a rubber squeegee and pass a roller to obtain a uniform coating. Apply a second coat of EC-WUCT at a thickness of 10 mils using a rubber squeegee and pass a roller to obtain a uniform coating.

APPLICATION: Coat of EC-WUCT (anti-slip finish)

Apply a first coat of EC-WUCT at a thickness of 10 mils using a rubber squeegee and pass a roller to obtain a uniform coating. Immediately broadcast the wet coating with pre-selected sand aggregates. Apply a second coat of EC-WUCT at a thickness of 10 mils using a rubber squeegee and pass a roller to obtain a uniform coating.

APPLICATION: Topcoat EC-WUCT over option 1 (EC-WUCSL)

Clean the cured surface of any excess aggregates using a broom and vacuum, and apply a coat of EC-WUCT using a rubber squeegee and use a roller to obtain a uniform coating.

Option: Topcoat EC-WUCT-30

Replace the EC-WUCT with the EC-WUCT-30 for a UV resistant (aliphatic) topcoat.

CLEANING

Clean all application equipment with the water. 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 7°C / 45°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%

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- Substrate temperature must be 3°C (5.5°F) above dew point measured
- When used as a stand-alone coating, steam cleaning may lead to delamination due to thermal shock. In thermal shock areas, EC-WUCT/EC-WUCT-30 should only be used as a top-coat over EC-WUCSL.
- 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)
- Do not apply on a sealed surface
- Protect the coating from all sources of moisture for a period of 48 hours
- Surface may discolor in areas exposed to regular ultraviolet light; for UV protection use EC-WUCT-30 as a topcoat
- Color uniformity may vary between lot numbers
- Do not apply on wet surface

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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