ECU-4000

UV Stable Polyurea Topcoat

DESCRIPTION

ECU-4000 is a two-component, high solids, UV stable moisture-cure polyurea topcoat. It provides a high-gloss finish with superior chemical resistance. It exhibits excellent physical properties and is designed to withstand industrial traffic. It can be applied over an epoxy-primer or used to re-coat existing epoxy or urethane floor.

PRIMARY APPLICATIONS

- UV-stable top coat
- Aircraft hangar floors
- Production areas
- Maintenance facilities
- Warehouses

ADVANTAGES

- Long pot life (30 min to 40 min)
- Respectable odor
- Superior chemical resistance (compared to standard epoxy)
- Excellent chemical resistance
- Light stable and good gloss retention
- VOC complaint

TECHNICAL DATA

Packaging litres / US gal	4 L / 1 US GAL KIT
Coverage rate ***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****	500 ft^2/gallon
Recommended Application Thickness	3.2 wet mils (81 microns)
Mix Ratio (by volume)	A : B = 4 : 1
Density (kg/litre)	Part A: 1.14 / Part B:0.90 / Mixed: 1.09
Pot Life (150g)	2 hours
Working Time	30 minutes
Dry Time ***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****	Allow 24 hrs @ 24°C, 50% relative humidity for light traffic. Full coating properties and chemical resistance take 14 days to develop.

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Shelf Life	12 months in original unopened factory sealed containers. Keep away from extreme

PROPERTIES @ 23°C (73°F) 50% RELATIVE HUMIDITY

Abrasion Resistance, ASTM D4060 (CS17/1000 cycles/ 1000 g)	18.8
Coefficient of Friction, ASTM D2047	0.60
Tensile Strength, psi (MPa), ASTM D2370	6250 (43.092)
Percent Elongation, ASTM D2370	7

SURFACE PREPARATION

The concrete surface to be coated must be structurally sound and free of curing membranes, paint or other sealers. 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/in^2) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in^2).

Concrete must be dry before application of coating. Concrete moisture testing is strongly recommended via calcium chloride (ASTM F1869) or in situ probe (ASTM F2170) testing. Results for the calcium chloride test should be below 3 pounds per 1000 square feet over a 24 hour period or below 75% for the relative internal concrete humidity.

APPLICATION

APPLICATION: Primer coat of ECTR
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-4000
Apply the finish coat of ECU-4000 at a rate of 500 sq. ft. /gallon using a 3/8" (10mm) nap roller. Spread the material evenly with V-shaped cross passes. Apply evenly and avoid creating excess pools of material. Excess material could cause the floor to blister, especially in high humidity.

CLEANING

Clean all application equipment with a 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).
- Protect the coating from all sources of moisture for a period of 48 hours

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.