



UCTR-725

Polyurethane Coating system

DESCRIPTION

UCTR-725 is a two component, aliphatic polyurethane coating system. It provides outstanding appearance, superior chemical, U.V., and solvent resistance. It exhibits excellent physical properties. This system has been approved by the Canadian Food Inspection Agency (CFIA).

ADVANTAGES

- Long pot life (30 min to 45 min)
- Very fast drying in thin film (6-10 mils); recommended min film 8 mils
- Superior chemical resistance (**very good stain resistance**)
- Superior weather and abrasion resistance
- Non yellowing and good gloss retention
- Dense surface resistant to bacteria and humidity
- May apply several layers on itself
- Contains no VOC solvents, allowing for interior application without harmful odors (100% solids)
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate

COLOR

Upon request

OPERATION

SURFACE PREPARATION:

Concrete surface must be clean. Remove any dust, grease, oil, dirt, curing agents, wax, foreign substances and disaggregated substances by BLASTRAC or by other approved methods. Compression resistance of concrete must be at least 25 MPa (3625 lbs/inch²) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs/inch²).

MIX:

Mix each component separately. Pour component B into component A using the proper mixing ratio. Mix both components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life.

APPLICATION:

Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

SUGGESTION:

Sprinkle the primed area lightly with aggregate to provide better footing.

CLEANING:

Clean all tools and materials with SCT-1000. Once product has hardened, it may only be removed through mechanical means.

RESTRICTIONS:

- Minimum/Maximum temperature of substrate: 10 °C / 30 °C (50 °F / 86 °F).
- Maximum relative humidity during application and curing : 85 %.
- Substrate temperature must be above 3 °C (5.5 °F) at 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 application.
- Avoid exterior use on substrates at ground level.
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period.



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PHYSICAL PROPERTIES

| | Part A | Part B | Mixed |
|-------------------------|--------------|-----------|-----------------|
| Color | Upon request | Clear | Upon request |
| Viscosity (cps) @ 25°C | 250 - 450 | 500 - 700 | 350 - 500 |
| Solids by weight (%) | 90 | 100 | 94 |
| Solids by volume (%) | 90 | 100 | 93 |
| Thinner | SCT-0001 | SCT-0001 | SCT-0001 |
| Density (kg/L) | 1.04 | 1.13 | 1.07 |
| Mixing ratio by volume | 2 | 1 | - |
| Mixing ratio by weight | 100 | 54 | - |
| Pot life (454 g @ 25°C) | - | - | 30 - 40 minutes |
| Recoat window | - | - | 6 - 10 hours |
| Recommended thickness: | - | - | 8 - 12 mils |
| Pedestrian traffic | - | - | 12 - 24 hours |
| Normal traffic | - | - | 24 - 48 hours |
| Heavy equipment traffic | - | - | > 48 hours |
| Storage | 12 months | 12 months | - |

*** 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.**

MECHANICAL PROPERTIES

| | Test | Result |
|--|------------|------------------------------|
| Tensile strength (psi) | ASTM D638 | 6500 - 7600 |
| Elongation (%) | ASTM D638 | 4 - 6 |
| Bond strength (psi) | ASTM D4541 | >300 (Substrate ruptures) |
| Hardness (Shore D) | ASTM D2240 | 75 - 85 |
| Abrasive resistance (CS17 / 1000 cycles / 1000 g) | ASTM D4060 | 0.05 |
| Water absorption (%) | ASTM D570 | 0.2 |



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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. For more information, consult the material safety data sheet.

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 eye contact. 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

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of CTM Adhesives Inc. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. CTM Adhesives Inc assumes no legal responsibility for use upon these data. CTM Adhesives Inc assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.