



## Product Information Sheet

# ESI Urethane Concrete Topping (UCT)

### PRODUCT DESCRIPTION

ESI Urethane Concrete Topping (UCT) is a self-levelling slurry to be applied at 3/16" thickness and broadcast to yield a 1/4" - 3/8" finished system. ESI Urethane Concrete Topping (UCT) can be applied with a pin rake, screed rake or flat trowel. It is designed to protect concrete, wood and steel substrates from thermal shock, impact, corrosion, chemical attack and abrasion.

### ADVANTAGES

- Can be applied to "green" concrete
- Rapid cure and hardness development
- Water based
- Hot cooking oil and steam resistance
- Low temperature cure
- Will not lose bond due to thermal shock
- Impact resistant
- Moisture Resistance
- No moisture testing required.
- Acceptable for use in USDA inspected facilities
- Resistant to:

### USES

- Food processing kitchens
- Commercial kitchens
- Food and Beverage plants
- Sugar processing plants
- Meat and Poultry plants
- Restroom and concession stands

### LIMITATIONS

- Protect material from freezing

### TYPICAL PHYSICAL PROPERTIES

Cure Time	Recoat	4-5 hours
	Foot Traffic	6-8 hours
	Full Service	10-12 hours
Compressive Strength ASTM C 579		5,000 psi
Tensile Strength ASTM C 307		550-600 psi
Coefficient of Friction ASTM D 2047		>0.80
Flexural Strength ASTM C 580		3,700 psi

### TYPICAL PHYSICAL PROPERTIES (cont'd)

Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	20-30 mgs lost
Hardness, Shore D ASTM D 2240	75
Adhesion ACI 503R	300 psi concrete failure

### INSTALLATION

ESI Urethane Concrete Topping (UCT) shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the ESI Urethane Concrete Topping (UCT).

### SURFACE PREPARATION

#### Surface Prep Profile CSP 406

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile equal to CSP4-6.

After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled.

### LIMITATIONS

The substrate must be structurally sound, cleaned of any foreign matter that will inhibit adhesion.

Do not apply in temperatures below 1°C (40° F) or above 29°C (85° F) or when relative humidity is greater than 85%. If substrate is not concrete or metal then do not apply. Working time is reduced with air movement and high humidity.

- Do not featheredge.
  - Do not mix partial units.
  - Do not hand mix. Do not let mixed material sit in a bucket, even a 2-3 minute delay in pouring will reduce working time.
  - Do not apply to cracked or unsound substrates.
- Full chemical resistance is achieved after a seven (7) day cure.

### CLEANUP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.



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#### **SAFETY**

Refer to the MSDS sheet before use. federal, provincial, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials. Safe and proper disposal of excess materials shall be done in accordance with applicable federal, provincial, and local codes.

#### **MATERIAL STORAGE**

Store materials in a temperature controlled environment 10°C - 32°C (50°F – 90°F) and out of direct sunlight. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition.

#### **IMPORTANT NOTICE**

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of Epoxy Solutions. The data relates only to the specific material designated herein. It may not be valid if used in combination with and other materials. It is the users' responsibility to verify suitability of this information for their own particular use. Epoxy Solutions assumes no legal responsibility for use upon these data.