



# ULTRA TUF COAT 155

## Chemical Resistant Resin System

### Admixtures

### Surface Treatments

### Protective Coatings

### Concrete Repairs

### Industrial Flooring

### Grouts & Anchors,

### Adhesives,

### Water Proofing

### Sealants

## DECORATIVE EPOXY SYSTEM

**ULTRA TUF COAT 155 PIGMENTED RESIN SYSTEM** provides an attractive seamless floor that is chemical and abrasion resistant. Utilizing a 100% solids epoxy and a pigmented color pack, ULTRA TUF COAT 155 can be applied to provide a smooth high gloss appearance.

### TYPICAL APPLICATIONS

- Manufacturing plants
- Kitchens
- Chemical processing
- Food processing
- Schools
- Hospitals
- Restaurants
- Rest rooms
- Lobbies
- Pharmaceuticals

### FEATURES / BENEFITS

- Decorative, aesthetic appearance
- Excellent chemical and abrasion resistance
- Alternative to brush applied systems
- Available in a variety of colors
- Easy to maintain  
Especially formulated for Middle Eastern weather

### Colors

Colors available: white, green, concrete gray, medium gray, black, tan, tile red and yellow. Other colors are available upon request.

### PACKAGING

#### Primer:

Packing: 1 kg and 5 kg packs

**Coverage** 3 m<sup>2</sup>/kg/Single Coat

Ultra Solvent 107: 5 liter and 30 liter cans

**ULTRA TUF COAT 155** is a two component epoxy packaged in 2.5 kg, 5 kg packs.

Part A Resin (Base) 2.125 kg, 4.25 kg

Part B Hardener 0.375 kg, 0.75 kg

### COVERAGE

Best appearance is achieved with a 2 coat application. 2.0-2.25 m<sup>2</sup>/lkg

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following results were developed under laboratory conditions.

Re-coat time .....@5-7 hours

Maximum re-coat time 24 hours

Suitable for foot traffic@72 hours

Suitable for wheel traffic@48-72 hours

Pot life (3.5 gal. kit) at 73°F (23°C)..... 35 minutes

Working time

over concrete at 73°F (23°C)70 minutes

Thickness: 10-20 mils (2.5-5.0 mm)

**Curing time 24 hours @20°C**

**Compressive strength** ASTM C-109

1 day 6,200 psi (42.8 N/mm<sup>2</sup>)

28 days 13,000 psi (89.7 N/mm<sup>2</sup>)

**Tensile Strength** ASTM D-638- 2,000 psi (13.8 N/mm<sup>2</sup>)

**Bond Strength** ASTM C-882 - 2,100 psi (14.5 N/mm<sup>2</sup>)

**Full Cure Time:** .....7 days

**V.O.C.** -294 g/l

**Abrasion Resistance:** Taber Abrader with CS-17 Calibrese wheel with 1,000 gm load/500 cycles yields a 48 mg loss.

**Shelf Life:** 1 year in the original, unopened container.

### CHEMICAL RESISTANCE

Acetic Acid, 10%.....	excellent
Acetone	non-resistance
Alkali's .....	excellent
Ammonia ...10%.....	excellent
Battery Acid .....	good
Beer.....	excellent
Bleach.....	excellent
Brake Fluid.....	good
Butanol .....	good
Citric acid .....	excellent
Diesel Fuel.....	excellent
Ethanol .....	poor
Ethylene Glycol.....	excellent
Gasoline.....	excellent
Hydraulic Oil.....	excellent
Hydrochloric Acid, 50% .....	excellent
Industrial Methylated spirits.....	good
Lactic acid 10% .....	excellent
MEK.....	excellent
Methylene Chloride .....	poor
MIBK ...	poor
Nitric Acid, 25% .....	good
Oil .....	excellent
Power Steering Fluid.....	excellent
Phosphoric Acid, 50%.....	Good
Skydrol.....	good
Sodium Hydroxide 50%.....	excellent
Sulphuric acid..... 80% .....	excellent
Transmission Fluid.....	excellent
Toluene.....	good
Urine.....	excellent
Xylene.....	excellent

**NOTE:** Where chemical resistance is rated as poor, check the ratings on ULTRA THANE as a possible topcoat for upgraded chemical resistance.

**RATINGS:** Poor-affected within 24 hours; Good- no affect for 24 hours; Excellent-no affect after 2 weeks.

### Appearance

**ULTRA TUF COAT 155 PIGMENTED RESINS SYSTEM** is a 2 part epoxy system consisting of a Part A, (resin), a Part B (hardener). After placement and curing, the product has a glossy appearance. But it is used as industrial floor coating and cannot be used as decorative purpose.



# ULTRA TUF COAT 155

## Chemical Resistant Resin System

### DIRECTIONS FOR USE

**Surface Preparation**-New concrete must be a minimum of 28 days old and possess an open surface texture with all curing compounds and sealers removed. The concrete must be clean and sound. All oil, dirt, debris, paint and unsound concrete must be removed.

The surface should be prepared mechanically using sandblast, shot-blast or scarifier which will give an open surface profile with the cement paste removed from the surface.

The above surface preparation is recommended by The Ultra Chemicals. Acid etching is acceptable only when mechanical preparation is impractical.

### Primer

Concrete surface should be primed with ULTRA primer.

**Mixing**-All materials should be in the proper temperature range of 60°F (16°C) - 130°F (50°C). Thoroughly mix together the Part A & Part B. The epoxy must be well mixed to ensure proper chemical reaction. Make sure there are no color streaks in the mix. After mixing, place immediately.

### Placement

Two coat application for nominal 20-25 sft/kg.

Coverage rates will vary due to surface texture. Back-rolling may be necessary to ensure complete wetting, uniform thickness and removal of any roller or squeegee marks. No primer is needed. After the initial coat has dried tacks free (but wait no more than 24 hours) apply the second coat following the same procedures.

### CLEAN-UP

Clean tools and equipment with solvent such as ULTRA SOLVENT, xylene, xylol, toluene or MEK. Do not allow the epoxy to harden on equipment.

### PRECAUTIONS / LIMITATIONS

- Cool temperatures extend working times and cure schedules, while warmer temperatures reduce them.
- For large jobs in higher than usual temperatures, consult The Ultra Chemicals for alternative epoxy base Coat.

### Storage:

Avoid to place direct to sun light and always store in shady areas.

### ISO Certification:

Our production facility at Pakistan is ISO 9001:2008 ISO 14001:2004 by BUREAU VERITAS and UKAS Management

**WARRANTY:** The Ultra Chemical LLC. ("Ultra") solely and expressly warrants that its products shall be free from defects in materials and workmanship for six (6) months from the date of purchase. Unless authorized in writing by an officer of Ultra, no other representations or statements made by Ultra or its representatives, in writing or orally, shall alter this warranty. **ULTRA MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS**

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