



# ULTRA TUF COAT 90

## TWO-PART EPOXY COATING

### Admixtures

### Surface Treatments

### Protective Coatings

### Concrete Repairs

### Industrial Flooring

### Grouts & Anchors,

### Adhesives,

### Water Proofing

### Sealants

ULTRA TUF COAT 90 is a high-performance floor-coating solvent base epoxy system designed to provide concrete surfaces with excellent wear resistance in combination with protection against chemical attack. These outstanding properties are further enhanced by the availability of a wide selection of semi-gloss colors for superior aesthetic benefits.

#### PRIMARY APPLICATIONS

- Food processing plants
- Auto/truck repair bays
- Warehouse floors
- Chemical plants
- Manufacturing plants
- Sewerage pipe lines.
- Waste water treatment plants, Drains, Disposal tanks
- Treatment plants of tanneries, Textiles etc.

#### FEATURES / BENEFITS

- Provides excellent wear under traffic
- Excellent resistance to a variety of chemicals
- Hardens to a semi-gloss finish
- Easy to apply with standard equipment
- Can be applied as a non-slip floor finish
- Available in a variety of colors
- No separate primer required

#### SPECIFICATIONS / COMPLIANCES

- ULTRA TUF COAT 90 is approved for use by the U.S.D.A. (Terra Cotta and Yellow are not) U.S.D.A. approved).

#### TECHNICAL INFORMATION

##### Typical Engineering Data

The following results were developed under laboratory conditions.

	@20°C	@35°C
Pot life at 70°F (21°C)	4-5 hrs	1.5 hrs
<b>Tack free time</b>	<b>6-8 hrs</b>	<b>2-4 hrs</b>
Re-coat time	6-24 hrs	4-16 hrs
Suitable for foot traffic	24 hrs	18 hrs
Full cure	7 days	5 days
Suitable for wheel traffic	48 hrs	48 hrs
Dry to touch at 70°F (21°C)	6 hrs	5 hrs
Mixing ratio by volume A to B	3 to 1	

#### CHEMICAL RESISTANCE

Acetic Acid,	10%	poor
Alkalis		excellent
Ammonia		excellent
Battery Acid		good
Beer		excellent
Bleach		excellent
Brake Fluid		good
Citric Acid	10%	good
Gasoline		excellent
Hydrochloric Acid,	10%	good
Lactic Acid	10%	excellent
MEK		poor
Methylene Chloride		poor
MIBK		poor
Nitric Acid, 5%		poor
Oil		excellent
Salt water		excellent
Skydrol®		good
Sulphuric Acid 10%		excellent
Toluene		good
Urine		excellent
Carbonic Acid		excellent

#### PACKAGING

ULTRA TUF COAT 90 is available in 2.5 kg and 5kg packs.

#### Abrasion Resistance:

Taber Abrader 30.2 mg loss  
CS-17 wheel with 1,000 gm/500 cycles

#### 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

- Avoid application at air and floor temperatures below 50°F (10°C).
- Store indoors at 45o to 110oF (7°C to 43°C).
- Use in a well ventilated area.
- Keep away from sparks and open flames.
- Product may yellow in outdoor (strong sunlight) environments.
- Epoxy components may cause Irritation. Avoid contact with eyes and skin.
- Apply only over dry concrete surfaces.
- Do not apply over hardened primer or old epoxy without proper surface preparation.
- Not recommended over new concrete less than 28 days old.
- If HVAC intake ducts will distribute solvent odor into adjoining occupied areas of the building, care should be taken to block these ventilation vents.



# ULTRA TUFCOAT 90

## TWO- PART EPOXY COATING

### Appearance

ULTRA TUFCOAT 90 is a 2-part epoxy system consisting of a Part A and a Part B. This product is available in Battleship Gray, Black, Clear, Concrete Gray, Green, Tile Red, Yellow, stone, and White. After placement and curing, the product has a smooth, semi-gloss appearance.

### COVERAGE

**Coverage: Ultra Tufcoat 90** coverage rate is 4 m<sup>2</sup> /Kg. There are 100 microns / single coat in wet film thickness and 90 microns in dry thickness per two coats. Use two coats for best appearance and protection. The concrete surface texture greatly affects coverage rates and final appearance. Additionally, introducing silica sand for slip resistance will reduce coverage rates.

### 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. For sewerage pipe line or drains it is suggested to apply one coat of Ultra Seal before epoxy coating.

**Joints and Edges**- If the floor is subjected to wheel traffic the edges of the floor area should be saw-cut 1/4" (6 mm) deep to provide a locked in edge. Moving

joints as in the case of expansion joints should be brought up through the coating. All cracks over 1/16" (1.6 mm) wide should be filled. Use a 100% solids epoxy mortar such as ULTRA Sealants to fill wide cracks, joints and keyed edges.

**Mixing**- All materials should be in the proper temperature range of 60°F (16°C) - 90°F (32°C). Mix parts A and (resin & hardener) separately for one minute using

A drill and mixing prop. For ease of mixing, add the part to the part A (not the reverse). Mix the Part A and Part B together for 3 minutes. The epoxy must be well mixed to ensure proper chemical reaction. After mixing, place immediately.

**Placement**- This product may be applied by squeegee, roller or industrial sprayer. After application, it is suggested the coating be back rolled to reduce surface imperfections and improve bond.

**Top Coat**- If desired, additional coats of this product or a topcoat of another Ultra product may be applied just after the initial coating has become tack-free. This could be as early as free. This be as early as 6 hours but must be within 24 of initial coating placement.

### 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 Chemicals, 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 FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Ultra product fails to conform to this warranty, Ultra will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Ultra does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ultra's installation information or instructions in its product literature or on its packaging labels. Any installation of Ultra products which fails to conform to such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Ultra's products for the Buyer's intended purposes.



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