



ULTRA TUF COAT 100S

Two-Part Chemical Resistant Epoxy Coating

Admixtures

Surface Treatments

Protective Coatings

Concrete Repairs

Industrial Flooring

Grouts & Anchors,

Adhesives,

Water Proofing

Sealants

ULTRA TUF COAT 100S is a high-performance pigmented resin system provides concrete surfaces protection 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

- Concrete Sewerage pipe lines,
- Waste water treatment plants, drains, disposal tanks, rain water storage tanks.
- Auto/truck repair bays
- Warehouse floors
- Chemical plants
- Manufacturing plants
- Treatment plants of tanneries, Textiles etc

FEATURES / BENEFITS

- Excellent resistance to a variety of chemicals
- Provides excellent wear under traffic
- 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 100S 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.

	@20oC	@35oC
Pot life at 70oF (21oC)	4-5 hrs	1.5 hrs
Tack free time	6-8 hrs	2-4 hrs
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 70oF (21oC)	6 hrs	5 hrs
Mixing ratio by volume A to B	3 to 1	

CHEMICAL RESISTANCE

Acetic Acid,	10%	good
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
Hydrogensulphide		excellent
Methane		excellent
Esters		excellent
Carbonmono Oxide		excellent
Oil		excellent
Salt water		excellent
Sulpherdyoxide		excellent
Sulphuric Acid 80%		excellent
Nitrogen Oxide		excellent
Urine		excellent
Carbonic Acid		excellent

Packing

Ultra Tuff Coat 100S is available in 2.5 Kg and 5 kg packs

Shelf Life 1 years Flexibility good Weathering very good

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 107, xylene, xylol, toluene or MEK. Do not allow the epoxy to harden on equipment.

PRECAUTIONS / LIMITATIONS

- Avoid application at air and floor temperatures below 50oF (10oC).
- Store indoors at 45o to 110oF (7o to 43oC).
- 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 TUF COAT 100S

Two-Part Chemical Resistant Epoxy Coating

Appearance

ULTRA TUF COAT 100S is a 2-part epoxy system consisting of Part A and 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 100S coverage rate is 6-8 m²/liter. There are 100 microns / single coat in wet film thickness and 100 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 for better results.

Mixing-All materials should be in the proper temperature range of (5°C) - (45°C). Mix part A and parts B (resin & hardener) separately for one minute using drill and mixing prop. Mix the Part A and Part B together for 3 minutes. The epoxy must be well mixed to ensure proper chemical reaction. After mixing, apply immediately.

Application-This product may be applied by paint brush, 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.

Ultra Chemical production Facility at Pakistan is ISO 9001-2008 certified for Quality management as per Certificate no.04-A-11 QMS 0019 by Moody International.

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 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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