



TECHNICAL DATA SHEET

SOLVENT BASED URETHANE UR4500

UR4500 is an aliphatic urethane topcoat designed for harsh chemical and abrasion environments. 100% UV stable, this material offers excellent flexibility for both interior and exterior applications. UR4500 is perfect for residential, commercial and industrial solid color floor or as a clear topcoat over a partial chip floors. Extended potlife allows for large mixes and easy application.

Shore D		72
Compressive Strength	ASTM D695	9,400 psi
Tear Strength (PLI)	ASTM D1737	350
Flexibility (1/8 Mandrel)	ASTM D2794	Pass
Falling Sand A Resistance	ASTM D968	30
Gloss	ASTM D523	90+
Tabor Abrasion Mg Loss	ASTM D4060	20

BENEFITS AND FEATURES

- Foot traffic in 8-12 hours, 24-36 hour full return to service
- Easy to mix two to one ratio
- Extended potlife for ease of use
- Extreme flexibility and elongation properties
- Extreme adhesion to most substrates
- Low temperature cure
- Custom tint colors available
- Self-leveling for smooth finish.

USES AND APPLICATIONS

- Garages floors
- Basements
- Automotive shops
- Dog kennels
- Parking decks
- Bathrooms
- Maintenance facilities
- Sidewalks and walkways
- Front entry ways
- Showrooms

PACKAGING

Product ships clear, but can be tinted using Penntek's universal tint packs. Custom colors available. Available in 3 and 15 gallon kits.

PRODUCT PHYSICAL PROPERTIES

Viscosity 300-400 CPS

PRODUCT CURE TIMES

Tack Free Time @ 70 Degrees Pot	2-4 Hours
Life	2-3 Hours
Foot Traffic	8-12 Hours
Re Coat	12 Hours

ADHESION

ASTMD 4541 Elcometer	
Concrete Substrate Failure	360 PSI

SURFACE PREPARATION

New concrete must have a 28 day cure and CSP 2-3, prior to coating. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, make sure the surface is clean, and passes the MVT. Fix any needed repairs using CR Mender or CR Patch and Coat before application.

RECOMMENDED COVERAGE RATES

Coverage rates based on 1600 square feet per gallon at 1 mil in thickness. Coverage rate will vary depending on application and substrate condition. Shot blasted floors will require more product than ground floors.

Roll application using 3/8" nap roller	400-450 sf/gal
flat blade squeegee and backroll	375-400 sf/gal

MIXING RATIO OF 2 PART A : 1 PART B

Always pre mix each side before use. Standard mix is 2 gallons of part A and 1 gallon part B. Mix with low speed drill for 2 minutes. Do not whip product or induce air as it will reduce pot life. Never mix more than 3 gallons at any time and mix smaller batches for cutting in edges or verticals. Apply with a brush, squeegee or 3/8" nap lint



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free roller. Potlife will decrease with high humidity and high heat.

REDUCERS

UR4500 should not be reduced.

STORAGE

All containers should be stored at 40° F to 95° F and be kept tightly sealed and out of direct sunlight. Shelf life of unopened containers is 12 months.

CLEAN UP

All tools should be cleaned with MEK or Acetone as soon as possible after application.

WARRANTY

Penntek Industrial Coatings warrants to the purchaser of its products that such products are free from manufacturing defect. Penntek Industrial Coatings does not warrant or guarantee the workmanship performed by any person or firm installing its products. Penntek Industrial Coatings obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Penntek Industrial Coatings sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which Penntek Industrial Coatings examination shall disclose to Penntek Industrial Coatings satisfaction to be thus defective.

Please read material safety data before using product.

Disclaimer:

All statements and recommendations are based on contractor experience and is believe to be reliable. Penntek Industrial Coatings make no warranty, expressed or implied, as to results or hazard from its use. The suitability, risk and liability whatsoever of a product for it's intended use shall be solely up to the User. Penntek Industrial Coatings reserves the right to investigate any misuse of products and information.