



TECHNICAL DATA SHEET

SOLVENT BASED URETHANE UR4600

UR4600 is an aliphatic high solids urethane topcoat designed for harsh chemical and abrasion environments. This material offers excellent workability for larger flooring applications, providing 100% UV stability for interior and exterior project. UR4600 is perfect for residential, commercial and industrial solid color floors, shop floors or as a clear topcoat over a metallic floors. Extended potlife allows for large mixes and easy application.

BENEFITS AND FEATURES

- ☑ Foot traffic in 24 hours, 36-48 hour full return to service
- ☑ Easy to mix kits
- ☑ Extended potlife for ease of use
- ☑ Extreme flexibility and elongation properties
- ☑ Slow cure, self-leveling technology
- ☑ 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 1 and 4 gallon kits.

PRODUCT PHYSICAL PROPERTIES

Viscosity		1000-2000 CPS
Shore D		72
Compressive Strength	ASTM D695	9,400 psi
Tear Strength (PLI)	ASTM D1737	380
Flexibility (1/8 Mandrel)	ASTM D2794	Pass
Falling Sand A Resistance	ASTM D968	25
Gloss	ASTM D523	90+
Tabor Abrasion Mg Loss	ASTM D4060	25

CHEMICAL RESISTANCE:

REAGENT	RATING
acetic acid 5%	C
mek	B
gasoline	D
50% sodium hydroxide	D
10% sulfuric	D
10% hydrochloric acid	D
20% nitric acid	C
ethylene glycol	D
Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.	

PRODUCT CURE TIMES

Tack Free Time @ 70 Degrees Pot	3-4 Hours
Life	1 Hour
Foot Traffic	12-24 Hours
Re Coat	24 Hours

ADHESION

ASTMD 4541 Elcometer	
Concrete Substrate Failure	460 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.



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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 350-400 sf/gal

MIXING RATIO OF 4 PART B : 1 PART A

Always pre mix each side before use. Standard mix is too mix entire contents of kit together. 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 lin free roller. Potlife will decrease with high humidity and high heat.

REDUCERS

UR4600 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 6 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.