

## Technical Data Sheet

# WATER BASED URETHANE UR4400

UR4400 is a water based urethane designed to add extreme abrasion and chemical resistance to any floor. It is a one of a kind technology that offers extreme adhesion, extended potlife and easy workability. UR4400 is perfect for topcoats on residential, commercial and industrial broadcast and solid color floors. With excellent adhesion and extended potlife, this formula is useful for applications over existing products and to add needed durability over broadcast systems.

### BENEFITS AND FEATURES

- Gloss or Matte finish
- Easy to mix two to one ratio
- Extended potlife for ease of use
- Maximum abrasion and chemical resistance
- Extreme flexibility and elongation properties
- Low temperature cure
- Zero VOC's
- Water based

### USES AND APPLICATIONS

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

### PACKAGING

Available in gloss or Matte finish.

Available in 3 and 15 gallon kits.

### PRODUCT PHYSICAL PROPERTIES

Tensile Strength            ASTM D412            6400

Compressive Strength	ASTM D695	9,800 psi
Tear Strength (PLI)	ASTM D1737	400
Flexibility (1/8 Mandrel)	ASTM D2794	Pass
Gloss	ASTM D523	80
Tabor Abrasion Mg Loss	ASTM D4060	21

### PRODUCT CURE TIMES

Tack Free Time @ 70 Degrees	4-6 Hours
Hard Dry	12-18 Hours
Foot Traffic	14-24 Hours
Re Coat	12 Hours

### ADHESION

ASTMD 4541 Elcometer	
Concrete Substrate Failure	550 PSI

### SURFACE PREPERATION

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 system. This material is designed to be applied thin. These coverage rates are for going over an existing topcoated surface. Do NOT apply to thick.

Roll applied over already covered quartz – 200-250 sf/gal

Roll applied over already covered chip – 250-300 sf/gal

Roll applied over solid color – 350-400 sf/gal

### MIXING RATIO OF 2 PART A : 1 PART B

Always pre mix each side before use. Standard mix is 2 qt of part A and 1 qt part B. Mix with low speed drill for 2 minutes. Do not whip product or induce air as it will reduce pot life. Mix smaller batches for cutting in edges or verticals. Apply with a brush, squeegee or 3/8" nap lint free roller. Potlife will decrease with high humidity and high heat.

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### REDUCERS

UR4400 can be reduced with up to 10% potable water.

### 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.

### WARRENTY

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:

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