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**09** 09 96 00  
High Performance Coatings



## Technical Data Sheet

# WEAR-TEK® 4400

HIGH PERFORMANCE, SINGLE COMPONENT  
MOISTURE CURE, ALIPHATIC URETHANE COATING  
THAT PRODUCES A TOUGH GLOSSY, HARD-WEARING  
CHEMICALLY RESISTANT SURFACE.

### Description

Wear-Tek®4400 is a solvent based single component cyclo-aliphatic urethane coating. It produces a tough, glossy, hard-wearing and chemically resistant surface for the protection of concrete, wood and other approved substrates.

Wear-Tek®4400 is available as a transparent, glossy coating or as a pigmented colored material that possesses excellent hydrolytic stability and ultra-violet radiation resistance as

well as high tensile strength while accommodating movement.

### Solids

48%

### Appearance/color

Available in clear and variety of standard and custom colors

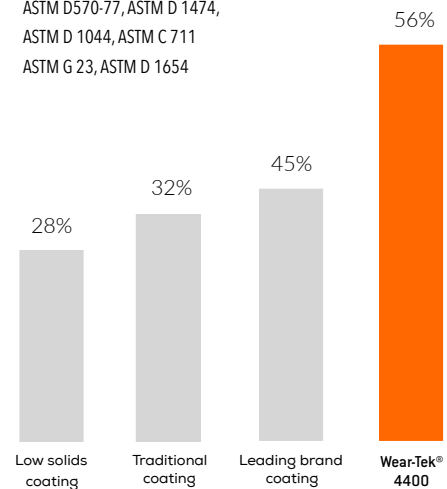
### Coverage

300 ft²/gallon

IMPACT RESISTANCE  
WATER ABSORPTION, TENSILE STRENGTH  
WEATHERING

Meets the requirements of:

ASTM D 2240, ASTM D 412  
ASTM D570-77, ASTM D 1474,  
ASTM D 1044, ASTM C 711  
ASTM G 23, ASTM D 1654



Percentage Improvement vs. Control



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### TECHNOLOGY // ADVANTAGES

- **Composition** - 48% solids nanotechnology driven high-performance moisture cure single component aliphatic urethane coating
- **May be used over concrete**, wood and other approved substrates
- **Provides a long service life** without loss of flexibility
- **Accommodates normal substrate movement** and thermal stresses
- **High strength**, tenacious adhesion to many surfaces
- **Maintains a cleanable, attractive**, hygienic surface, easily scrubbed and cleaned
- **Increases friction** to improve traction
- **Protects substrates from chemical attack** and corrosion, withstands heavy use and environmental attack
- **Long term color retention**, highly fade resistant
- **Penetrates into concrete surfaces** to seal and waterproof floors, walls and decks, providing a solid clear or colored finish
- **Provides a tough color-fast finish** on roof top decks and walkable metal roofs

### TYPICAL PROPERTIES

**Appearance** - Available in clear and variety of standard and custom colors

**Packaging** - 1 gallon (3.78 L), 5 gallon (18.9 L) pails

**VOC's** - 300 g/L maximum

**Recommended Thickness** - 3 mils dry (DFT)

**Shelf Life** - 1 year (unopened) from date of manufacture

### APPLICATIONS

- Interior/Exterior
- Horizontal/Vertical
- Stadiums/Buildings
- Balconies
- Plazas
- Bridge decks
- Stairways/Walkways
- Parking garages

### SUBSTRATES

- Concrete, brick, masonry
- Wood, metal, rubber, plastic composites



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### TESTING DATA

#### TEST METHOD

##### ASTM D 2240

Standard Test Method for Rubber Property—Durometer Hardness

##### ASTM D412

Tensile Set of Rubber and Thermoplastic Elastomers

##### ASTM D412

Tensile Set of Rubber and Thermoplastic Elastomers

##### ASTM D 1044

Standard Test Method for Resistance of Transparent Plastics to Surface Abrasion

##### FTSM 141A (M4293)

Flashpoint

##### ASTM C 711

Standard Test Method for Low-Temperature Flexibility and Tenacity of One-Part, Elastomeric, Solvent-Release Type Sealants

##### ASTM D 1474

Standard Test Methods for Indentation Hardness of Organic Coatings

##### ASTM D570-77

Water Absorption 24 Hour/Equilibrium

##### ASTM G 23

Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials

#### TYPE

Shore "A" Hardness

Tensile Strength

Elongation

Solids Content

Flashpoint

Flexibility at Low Temperatures

Impact Resistance (4mm indent)

Water Absorption

Weatherometer (5000 hours)

#### RESULTS

95

4000 psi

10%

48% (B.W); 44% (B.V.)

105° F

180° bend @ 20°F

Pass

0

Pass

Test results are averages obtained in a controlled environment, material and curing conditions of 75°F and 50% relative humidity. Reasonable variations should be expected .



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### APPLICATION

#### Surface Prep

1. The concrete substrate to be coated must be clean, dry, and completely free of loose particles, grease, oil, or any substance that would interfere with proper bond.
2. Surface and air temperatures must be at least 35°F during application. Surface and air temperatures should not exceed 95°F. Keep material from freezing. Do not apply during inclement weather or when inclement weather is expected within 12 hours. Application must be protected from precipitation for at least 4 hours.
3. Protect people, property, vehicles, window glass, roofing materials, plastic products, shrubbery, landscaping and all surfaces not set for treatment from overspray.

#### Application

Wear-Tek®4400 may be applied by brush or airless spray technique in a thin, even coat. Care should be taken to avoid creating foam or trapping air bubbles which may later result in pinholes or hazing. If traction enhancement is required, iron-free sharp white quartz sand or Soft Sand Rubber Granules may be broadcast onto the wet Wear-Tek®4400. After the first coat has thoroughly dried with the embedded sand, a second coat of Wear-Tek®4400 is applied to thoroughly encapsulate the aggregate. Sized and graded sharp white quartz sand and Sand Rubber Granules are available from KreteTek Industries Inc.

#### Dry Time

Typical drying time for walking is 2 hours at 70°F and 50% relative humidity. Typical drying time for a full cure is 24 hours at 70°F and 50% relative humidity. Cooler temperatures or higher relative humidity can extend the drying time.

#### Clean Up

Clean equipment, tools and surfaces with xylene. Unused or old material may be disposed of in a waste disposal site in accordance with local, state and federal laws.

#### Precautions/Safety

Use appropriate safety equipment during application and handling. Please refer to the safety data sheet (SDS) for additional precautionary instructions before use.

#### Maintenance

To repair damaged areas, coarse sanding should be followed by thorough cleaning with fresh water. Wear-Tek®4400 may then be reapplied to the clean, dry surface.



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### APPLICATION

#### Best Performance

- Proper application is the responsibility of the user.
- Make sure the most current versions of technical data sheets and safety data sheets are being used.
- Keep out of reach of children and pets.
- Store in a cool, dry place away from direct sunlight. Avoid opened containers, as moisture will cure the material.

#### Coverage

300 square feet per gallon. Variations in texture and porosity of substrate will affect the coverage and performance of the product.

#### KreteTek Industries Inc.

1000 N West Street  
Wilmington, DE 19801

[www.Ghostshield.com](http://www.Ghostshield.com)

#### Customer Service and Technical Support

1-855-KreteTek (1-855-573-8383)

#### Warranty

KreteTek Industries Inc. warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. KreteTek Industries Inc. makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its products. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price at the sole option of KreteTek Industries Inc. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. KreteTek Industries Inc. will not be responsible for any special, incidental, consequential (including lost profits) or punitive damages of any kind.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on KreteTek Industries Inc. present knowledge and experience. However, KreteTek Industries Inc. assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. KreteTek Industries Inc. reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

#### For professional use only.

Last revised 4/17