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PRODUCT DATA

Sections

09 09 96 00
High Performance Coatings

Technical Data Sheet

MAX WEAR URETHANE 960

SATIN FINISH URETHANE TOPCOAT

Description

Max Wear Urethane 960 is a high solids, three-component coating designed to coat concrete floors. Max Wear Urethane 960 provides incredible abrasion resistance and chemical resistance. Recommended for indoor areas with high risks of exposure to chemical spills, fuel, heavy equipment, extreme temperatures and any other potentially damaging situation the substrate may encounter.

This clear topcoat that has a satin finish with a light, consistent texture.

Best used as a top coat after the Epoxy Max 100 for added UV stability and abrasion resistance.

Solids

96%

Appearance/Color

Available in clear.

Finish

Satin

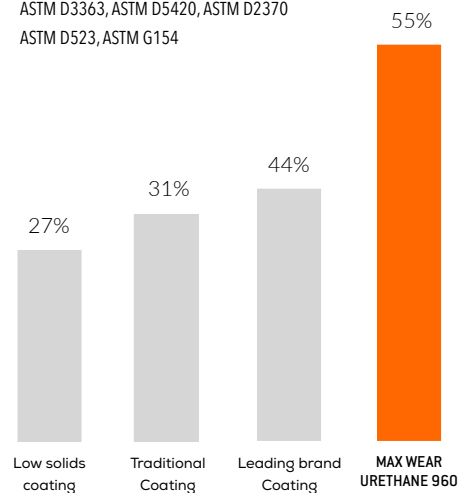
Coverage

500-800ft²/gallon.

CHEMICAL RESISTANCE

Meets the requirements of:

ASTM D4060, ASTM D4541, ASTM D522,
ASTM D3363, ASTM D5420, ASTM D2370
ASTM D523, ASTM G154



Percentage Improvement vs. Control

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TECHNOLOGY // ADVANTAGES

ADVANTAGES

- **Composition** - 96% solids nanotechnology driven high-performance urethane coating
- **Excellent hardness and durability** - provides a long service life without loss of flexibility
- **Used as a top coat** after Epoxy Max 100
- **High strength**, tenacious adhesion
- **Maintains a cleanable, attractive, hygienic surface**, easily scrubbed and cleaned
- **Stops dusting and protects substrates from chemical spills** and corrosion, withstands heavy use
- **UV stable** - long term color retention, fade resistant
- **Abrasion resistant** and scratch resistant

APPLICATION EQUIPMENT

- Drill & Jiffy Mixer
- 3/8" nap shed-resistant roller (tape to remove loose roller hair)
- Roller Pans

*For interior use only

TYPICAL PROPERTIES

Appearance - Available clear

Packaging - 1 gallon Kit

VOC's - 95 g/L

Recommended Thickness - 2-3 mils WFT

APPLICATIONS

- Interior
- Horizontal
- Garages
- Shop Floors
- Warehouses
- Hangers
- Manufacturing Facilities

SUBSTRATES

- Concrete

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TESTING DATA

TECHNICAL SPECS

Chemistry: Urethane

Color: Clear

Finish: Satin

Carrier: 96% Solids

Packaging: 1 Gallon Kit, 3 Component Kit

Coverage: 500-800 sq. ft. per gallon at 2-3 mils wet film thickness.

Application Method: 3/8" nap roller

Application Temperature: 60°-85°F with relative humidity below 75% and at least 5° over the current dew point.

Number of Coats: 1

VOC Content: 95 g/L

Film Thickness: 2-3 mils

Adhesion: 300 psi

Impact Resistance: 160 in. lb.

Flexibility 1/8" Mandrel: Passes, no cracks

Hardness, Pencil: 4H

Tensile Strength: 7,200 psi

UV Resistance: Excellent

Abrasion Resistance: 12 mg loss

CHEMICAL RESISTANCE

10% Acetic Acid: F
Vinegar: G
10% Citric Acid: G
10% Hydrochloric Acid: E
30% Hydrochloric Acid (muriatic): E
10% Nitric Acid: G
50% Phosphoric Acid: G
10% Sulfuric Acid: G
37% Sulfuric Acid: F
70% Sulfuric Acid: F
20% Ammonium Nitrate: E
20% Sodium Chloride: E
50% Sodium Hydroxide: E
Methyl Ethyl Ketone: E
Xylene: E
Ethylene Glycol: E
Isopropyl Alcohol: E
Mineral Spirits: E
Brake Fluid: G
Transmission Fluid: E
Motor Oil: E
50: 1 Gas/Oil Mixture: E
E85 Gasoline: E
E95 Gasoline: E
Unleaded Gasoline: E
Skydrol: E
Betadine: G
Bleach: E
Urine: E
Coffee: E
Cola: E
Ketchup: F
Mustard: G
Red Wine: E

E = Excellent
G = Good

F = Fair
NR = Not Recommended

CURE TIMES (75°F) 50% RH

Pot Life – 20-30 minutes

Tack Free (dry to touch): 5 hours

Light Foot Traffic: 20 hours

Heavy Foot Traffic: 48 hours

Full Cure (Heavy Traffic): 5 days

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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SURFACE PREP

Surface must be clean, dry, and completely free of loose particles, grease, oil, or any substance that would interfere with proper bond. Perform vapor testing to verify that the vapor pressure is below 3lb/24hr/1000 sq. ft. If moisture vapor transmission exceeds 3lbs, first use Vapor-Tek 440.

When applying directly to concrete, we recommend either mechanical scarification or acid etching until a suitable profile is achieved (CSP Level 1 or 2). If acid is used to clean the concrete, neutralize the surface completely and rinse it with water prior to application. Concrete must be dry for at least 24-48 hours prior to application.

When applying on a newly coated epoxy, be sure to apply within the epoxy re-coat window to ensure proper adhesion to the epoxy coating. If applying top coat outside of the epoxy's recoat window the surface must be abraded by using an 80/100 grit sandpaper, diamond or Diamabrush. Be sure to sand the previous coating until no gloss is visible. Before applying the coating, be sure the sanded surface is clean, dry and free of contaminants such as dirt, dust, or other foreign materials.

MIXING

Max Wear Urethane™ 960 has three (3) components. Kits come prepackaged and should be used in their entirety and should not be broken down. Mix at a slow speed to avoid whipping air into the coating. Improper mixing may result in product failure. Once the material is mixed, it cannot be re-sealed for later use.

Using a mechanical mixer, pre-mix Part B in original container at low speed. Once mixed, slowly add Part A and mix for three (3) minutes or until thoroughly blended.

Add Part C and mix for three (3) additional minutes or until mix is uniform and streak free.

APPLICATION

Using a brush, cut in any edges. Pour remaining material into a roller pan and apply using a 3/8" nap roller. Apply in a smooth, even, uniform manner. Dip the roller in the material and lightly roll off excess coating in the roller pan. Roll across your area right to left or left to right, 2 parallel paths on the concrete that are approximately 8-10 feet in length. Repeat the dip and roll process 2 more times, so there are 6 adjacent roller paths in front of the applicator. Agitate the mixed material in the roller pan frequently, as the Part C filler can settle to the bottom of the pan.

Back-roll the coating up and back across the previously applied paths (perpendicular) using a V-shape pattern to evenly spread the material and remove roller lines. There should be just enough material on the floor to cover the area.

For best results, finish roll the coating on spiked shoes by pulling a roller across the entire area in the same direction as the original roller passes to further blend any remaining overlap and roller marks. The material will not flow out, so the coating will cure with any defects that are visible. Reroll areas that do not look satisfactory.

To help prevent visual differences in application be sure to minimize the time between tie-ins. Use control joints or natural breaks as breaking points between mixes. Continue to blend overlaps and roller marks. Max Wear Urethane™ 960 does not self-level, so coating will cure defects that are visible. Reroll areas that do not look satisfactory. Do not back roll coating if it begins to tack up. This could result in an orange peel texture and/or a whiteish haze in the coating. Applying the coating thicker than recommended or rolling the material when sticky will cause bubbles, roller lines, and create an inconsistent appearance.

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APPLICATION

APPLICATION NOTES

- Do not apply at temperatures and thicknesses not recommended.
- Do not make partial mixes.
- Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, metal, polyesters, or elastomeric membranes.
- Moving joints and shrinkage cracks may reflect through system. Joints that are designed to move may reflect through the finished flooring system if they are not honored.
- Applying thicker than recommended, allowing material to pool, or rolling into late may leave a white, hazy appearance.
- Tire marking may occur.

CLEAN UP

Clean up mixing and application equipment immediately after use. Use toluene, acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state and federal regulations when disposing of materials.

PRECAUTIONS/SAFETY

Refer to the SDS sheet before use. Safety precautions must be strictly followed during storage, handling, and use. Personal Protective Equipment (PPE) should be worn at all times. PPE will include (but is not limited to): Safety glasses with side shields and high-quality nitrile gloves.

MAINTENANCE

To maintain the appearance and extend the life of the newly sealed surface, it is imperative to have a routine maintenance program. Dirt and debris that is tracked over a finished floor will quickly scratch and dull the surface. Place walk-off mats at entrances. Sweep and mop/scrub floors regularly using soft bristles/pads and a mild cleaner. Some cleaning products and equipment or improper use of these can damage a surface. Remove spills quickly to minimize damage and/or stains. For systems that support parked vehicles or other heavy items on rubber wheels, place a small piece of nonporous material, such as sheet metal or plexiglass between the tires and floor to prevent tire marks. Reapplication may be necessary in heavy traffic areas.

SHELF LIFE

12 months when stored indoors at 60°F - 85°F (16°C - 29°C) in a dry location with humidity below 65%. Do not allow materials to freeze.

CONTACT

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WARRANTY

KreteTek Industries Inc. warrants our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. No warranty is made, expressed or implied, regarding such other information, the data on which it is based or the results you will obtain from its use. We shall have no liability for incidental or consequential damages, direct or indirect. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products.

Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sales of our products. Our products contain chemicals that may cause serious physical injury. Before using, read the Safety Data Sheet and follow the precautions to prevent bodily harm.

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 4/23