GHOSTSHIELD

980

PRODUCT DATA

Technical Data Sheet

Sections

09 09 96 00
High Performance Coatings

POLYASPARTIC 980

LOW ODOR TOP COAT FOR CLEAR, SOLID, METALLIC OR FLAKE FLOORS

Description

Polyaspartic 980 is a two-component, 98% solids, V.O.C. compliant, aliphatic polyaspartic designed to provide a chemical resistant durable top coat that maintains vibrant color over time with superior color retention.

Recommended for areas with high risk exposure to chemical spills, fuel, heavy equipment, extreme temperatures.

Polyaspartic 980 has an exceptionally low odor, with a tack-free dry-time of 1-2 hours which makes it the best choice for projects where a thin build coating is desired with a limited period of time for installation.

Solids

98%

Appearance/Color

Available in clear

Finish

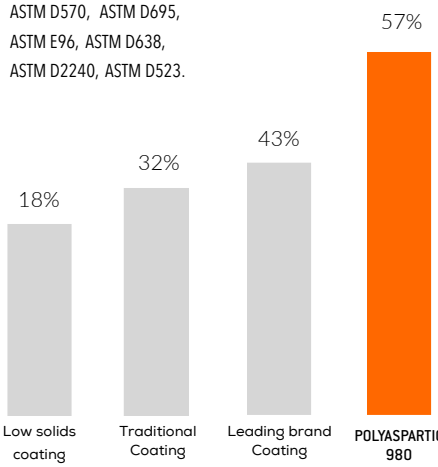
High-Gloss

Coverage

150 -200ft²/gallon.

TENSILE STRENGTH

Meets the requirements of:
ASTM D4060, ASTM D1737, ASTM D4541, ASTM D1894, ASTM D570, ASTM D695, ASTM E96, ASTM D638, ASTM D2240, ASTM D523.



Percentage Improvement vs. Control

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TECHNOLOGY // ADVANTAGES

ADVANTAGES

- **Composition -** 98% solids nanotechnology driven high-performance polyaspartic coating
- **Low odor-** provides flexible ease-of-use for any indoor application
- **Excellent durability -** ultra-high taber abrader resistance
- **High strength,** outstanding long-term protection
- **Maintains a cleanable, attractive, hygienic surface,** easily scrubbed and cleaned
- **Protects substrates from chemical spills** and corrosion, withstands heavy use
- **UV and moisture resistant** to prevent blushing, fading, and cracking
- **High adhesion -**Adheres exceptionally well to concrete, epoxy, wood, and metal for a secure, lasting bond

APPLICATION EQUIPMENT

- Drill & Jiffy Mixer
- 3/8" nap shed-resistant woven roller (tape to remove loose roller hair)
- Flat or notched rubber squeegee (EPDM) Squeegee
- Roller Pans

TYPICAL PROPERTIES

Appearance - Available Clear

Packaging - 2 Gallon Kit

VOC's - <28 g/L

Recommended Thickness - 8 mils WFT

APPLICATIONS

- Interior
- Horizontal
- Garages
- Shop Floors
- Warehouses
- Hangers
- Manufacturing Facilities
- Topcoat for Flake Systems

SUBSTRATES

- Concrete

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TESTING DATA

TECHNICAL SPECS

Chemistry: Polyaspartic

Color: Clear

Finish: High Gloss (95+ ASTM D523)

Carrier: 98% Solids

Packaging: 2 Gallon Kit , 2 Component Kit

Coverage: 150-200 sq. ft. per gallon at 8 mils wet film thickness.

Application Method: (EPDM) Squeegee

Application Temperature: 40°F-90° F with relative humidity below 75% and at least 5° over the current dew point.

Number of Coats: 1

VOC Content: <28 g/L

Elongation: 100-110%

Flexibility 1/8" Mandrel: Pass

Hardness, Shore D: 75-78

Tensile Strength: 7,000-8,000 psi

Compressive Strength: 9000-10,000 psi

UV Resistance: 87-89

Taser Abrasion: 30 mg

Adhesion: >500psi

Tear Strength: 350 (ASTM D2240)

Water Absorption: 0.2% (ASTM D570)

CURE TIMES (75°F) 50% RH

Pot Life – 30-45 minutes

Tack Free (dry to touch): 1-2 hour

Recoat Time: 6-12 hours

Foot Traffic: 24 hours

Full Cure (Heavy Traffic): 3-5 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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TESTING DATA

CHEMICAL	RESULTS
Acetic Acid 100% C	C
Acetone C	C
Ammonium Hydroxide 50% RC	RC
Benzene C	C
Chlorinated H20 R	R
Clorox (10%) H20 R	R
Diesel Fuel RC	RC
Gasoline RC	RC
Hydrochloric Acid 20% R	R
Hydrochloric Acid 10% NR	NR
Hydraulic Fluid (oil) RC	RC
Isopropyl Alcohol R	R
Lactic Acid RC	RC
MEK RC	RC
Methanol R	R
Methylene Chloride C	C
Mineral Spirits RC	RC
Motor Oil R	R
Muriatic Acid 10% R	R
NaCl/H20 10% R	R
Nitric Acid 20% NR	NR
Phosphoric Acid 10% R	R
Phosphoric Acid 50% NR	NR
Potassium Hydroxide 10% R	R
Potassium Hydroxide 20% R, Dis	R, Dis
Propylene Carbonate RC	RC
Skydrol C	C
Sodium Hydroxide 25% R	R
Sodium Hydroxide 50% R, Dis	R, Dis
Sodium Hypochlorite 10% R	R
Sodium Bicarbonate R	R
Stearic Acid R	R
Sugar/H20 R	R
Sulfuric Acid 10% R	R
Sulfuric Acid >50% RC	RC
Toluene R	R
Trisodium Phosphate R	R
Vinegar/H20 5% R	R
H20 R	R
H20 14 days at 82°C R	R
Xylene RC	RC

CURE TIMES (75°F) 50% RH

Pot Life – 30-45 minutes

Tack Free (dry to touch): 1-2 hour

Recoat Time: 6-12 hours

Foot Traffic: 24 hours

Full Cure (Heavy Traffic): 3-5 days

R = Recommended/ little or no damage
RC = Recommended Conditional/ some effect, swelling or discoloration
C = Conditional/ cracking-wash within one hour of spillage to avoid affects
NR = Not Recommended
Dis = Discoloration

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APPLICATION

SURFACE PREPARATION:
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 3). 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 recoat window to ensure proper adhesion to the epoxy coating. If applying topcoat outside of the epoxy's recoat window the surface must be abraded by using 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 contaminates such as dirt, dust, or other foreign materials.

RECOMMENDED TOOLS:
Best applied using EPDM Squeegee. 3/8" nap shed-resistant roller is recommended if back-rolling. A paint brush may be appropriate for cutting in or small-scale applications. Spiked shoes, mechanical mixing device also recommended.

MIXING:
Combine one (1) Part A to one (1) Part B, by volume. Kits come pre-packaged, 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 material is mixed, it can not be re-sealed for later use.

1. Using a mechanical mixer, mix Part A in original container at low speed for one (1) minute. Once mixed, pour Part A into larger mixing container (5 gallon pail recommended).
2. Add Part B into Part A and mix on low speed for three (3) minutes or until uniform.

Do not reuse mixing containers. Once the material is mixed, it cannot be re-sealed for later use.

APPLICATION:
Immediately pour entire contents of mixed Polyaspartic 980 onto the floor in a long bead approximately 12 - 18 inches wide. Use squeegee to spread material to a uniform recommended thickness of 8 mils. As material is being spread, a second applicator should back-roll material using a 3/8" shed-resistant woven roller. 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. Do not back roll coating if it begins to tack up. This could trap air into film or cause roller marks. Use a new mixing pail for each kit.

APPLICATION NOTES
- Do not apply at a temperature not recommended.
- Do not delay in pouring mixed material onto the floor.
- Do not use this product at warm conditions if unfamiliar with polyaspartics and cannot handle a product with short work time.
- 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 the 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.

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APPLICATION

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

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 recommenced 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 advise 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.

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