

Sections

**09** 09 96 00  
High Performance Coatings

# POLYASPARTIC 745™

HIGH PERFORMANCE, TWO COMPONENT SOLVENT BASED POLYASPARTIC COATING DESIGNED TO REPEL CHEMICALS AND RESIST ABRASION. AVAILABLE IN A CLEAR HIGH GLOSS FINISH.

### Description

The Polyaspartic 745 is a solvent-based, two-component, aliphatic polyaspartic coating designed to coat concrete floors or concrete countertops providing incredible abrasion resistance and chemical resistance. Recommended for indoor areas with high risk of exposure to chemical spills, fuel, heavy equipment, extreme temperatures and any other potentially damaging situation the substrate may encounter.

Polyaspartic 745 has an exceptionally fast dry-time, with a tack-free dry-time of 3-7 hours which makes it the best choice

for projects where a thin build coating is desired with a limited period of time for installation. Great for use on concrete countertops and concrete feather finish countertops where an extremely durable coating is needed.

### Solids

100%

### Appearance/color

Clear

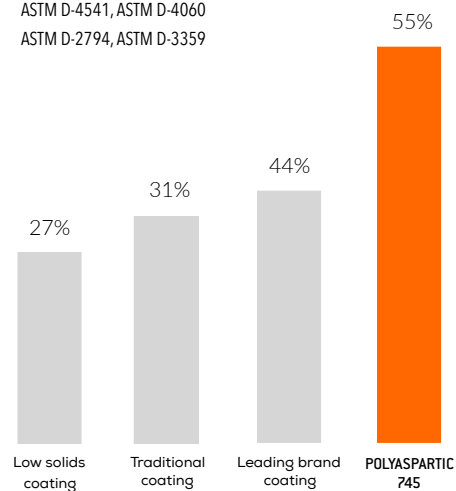
### Coverage

100 ft<sup>2</sup>/gallon @ 16-18mils

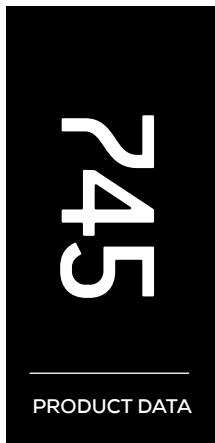
IMPACT RESISTANCE  
ABRASION RESISTANCE, CHEMICAL RESISTANCE

Meets the requirements of:

ASTM D-1308, ASTM D-3363,  
ASTM D-4541, ASTM D-4060  
ASTM D-2794, ASTM D-3359



Percentage Improvement vs. Control



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## TECHNOLOGY // ADVANTAGES

- **Composition** - 100% solids nanotechnology driven high-performance solvent based polyaspartic coating
- **Excellent hardness** - provides a long service life without loss of flexibility
- **Excellent durability** - provides a long service life
- **May be used as a base coat** or a stand alone product
- **High strength**, tenacious adhesion
- **Maintains a cleanable, attractive**, hygienic surface, easily scrubbed and cleaned
- **Stops dusting** and allows for easy cleaning
- **Protects substrates from chemical spills** and corrosion, withstands heavy use
- **UV stable** - long term color retention, fade resistant
- **Abrasion resistant** and scratch resistant

For interior use only

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### TYPICAL PROPERTIES

**Appearance** - Available in clear

**Packaging** - Quart kit for countertops, 3 gallon kit, 15 gallon kit

**VOC's** - 4g/L maximum

**Recommended Thickness** - 16-18 mils

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

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### APPLICATIONS

- Interior
- Horizontal
- Concrete countertops
- Garages
- Shop Floors
- Warehouses

### SUBSTRATES

- Concrete



# Technical Data Sheet

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## TESTING DATA

### TECHNICAL SPECS

- Feature:** Durable Coating
- Chemistry:** Polyaspartic
- Color:** Clear
- Finish:** High gloss
- Carrier:** 100% Solids
- Availability:** 2 component kit
- Packaging:** Quart Kit, 3 Gallon Kit, 15 Gallon Kit
- Coverage:** 100 sq. ft. per gallon at 3-5 mils wet film thickness
- Application Method:** Epoxy Glide roller/brush
- Application Temperature:** 55-90 degrees F with relative humidity below 75%
- Number of Coats:** 1
- Clean up:** Xylol
- VOC Content:** <4 g/L
- Hardness:** Shore D 80
- Compressive Strength:** 9,000 psi
- Tensile Strength:** 6,600 psi
- Abrasion Resistance:** 29 mg
- Adhesion:** 350 psi
- Viscosity:** 1000-2000 cps

### CHEMICAL RESISTANCE

- Xylene:** Long term splash spill
- 1,1,1 trichloroethane:** Short term splash spill
- Mek:** Not Recommended
- Methanol:** Not Recommended
- Ethyl Alcohol:** Long Term Splash Spill
- 50% Sodium Hydroxide:** Short Term Immersion
- 10% Sulfuric Acid:** Long term splash spill
- 70% Sulfuric Acid:** Not Recommended
- 10% HCl (aq):** Long Term Splash Spill
- Acetic Acid 5%:** Short Term Splash Spill
- Butanol:** Long Term Splash Spill
- Skydrol:** Short Term Splash Spill

### CURE TIMES (70°F)

- Pot Life - 1.5 - gallon volume:** 20-30 minutes
- Tack Free (dry to touch):** 6-10 hours
- Recoat or Topcoat:** 10-16 hours
- Light Foot Traffic:** 16-24 hours
- Full Cure (Heavy Traffic):** 3-7 days

Test results are averages obtained in a controlled environment, material and curing conditions of 70°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 55°F during application. Surface and air temperatures should not exceed 90°F. Keep material from freezing.
3. The surface-zone moisture content of the concrete should not exceed 4% wt. A test should be made to determine that the concrete has an appropriate vapor barrier. This can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbanding. Testing should be performed to confirm a moisture vapor emission rate below 3 lb/24hr/1000 ft<sup>2</sup> per ASTM F1869.
4. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). If acid is used to clean the concrete, neutralize the surface completely and rinse it with water prior to application. Then wait for the concrete to dry out for at least 24-48 hours.

### Application

**Mixing:** This product has a mix ratio of 2 gallons part A to 1 gallon part B. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.

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**Application** - The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

**Recoating/Topcoating:** If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. Many epoxy coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

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### APPLICATION

#### Application Notes:

- Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured. It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.
- Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.
- Colors or clarity for clear may be affected by high humidity, low temperatures, or chemical exposure.
- For best results use a high quality nap roller.
- Slab on grade requires moisture barrier.
- Substrate temperature must be 5°F above dew point.
- Relative humidity must be below 75°F.
- All new concrete must be cured for at least 28 days.
- Improper mixing or too thick of an application may result in product failure.
- Do not expose this product to water until fully cured.
- Too thick of an application may result in surface imperfections or bubble generation.

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#### Clean Up

Clean equipment, tools and surfaces with xylol. 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.



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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

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

#### KreteTek Industries Inc.

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Hudson, NH 03051

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

#### Customer Service and Technical Support

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

#### 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.

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#### For professional use only.

Last revised 4/19