

TECHNICAL DATA SHEET | POLYASPARTIC EXTREME DURABILITY - SLOW

DESCRIPTION: Polytek Polyaspartic Fast is a 4 Hour Dry, two-component, high-solids, Polyaspartic Polyurethane. The Slow's extra working time coupled with its UV resistance, mar resistance, and chemical resistance will outperform most other types of sealers or topcoats.

USES: Polytek's Polyaspartic Slow is designed for professional use only and is specified as the finish coat for use in moderate chemical environments or in medium-heavy traffic areas. Apply Polyaspartic Slow as a coating over Polytek Moisture Seal and 100% solids epoxies. Slow can also be applied over decorative paint chips and can be used as a sealer on a variety of other substrates such as plain concrete, acrylic cements, and Acid-Stained Concrete Flooring. Use Polyaspartic Slow on Industrial Floors, residential Garage Floors, Decorative Floors, Restaurant Floors, Food Processing Facilities, Automotive Service Areas, and other moderate-high traffic areas.

ADVANTAGES:

- SCAQMD VOC Compliant (VOC <5 g/l)
- Chemical Resistant
- Color and Gloss Retention
- Impact and Abrasion Resistant
- Extended Working Time and Dry Time
- Walk on 18 Hours, Drive on 72 Hours
- Convenient 1:1 Mix; A:B = 1:1

Physical Properties	
Mix Ratio	1:1
Shore D Hardness	82D
Color	Clear
Mixed Viscosity (cps)	350-400 cps
Coverage	175-300 sq. ft/gal
Work Time	40 min
Recoat Time	6-24 hours
Dry Time	3-4 hours
Light Foot Traffic	24 hours
Light Vehicle Traffic	72 hours
Full Cure	3-7 days
VOCs	<5 g/l
Tensile Strength	3,980 psi

*All values measured after 24 hours at 73°F/23°C. ^Demold time varies with the thickness of the casting.

COVERAGE:

225-300 sq. ft per gal over smooth surfaces

175-250 sq. ft per gal over rough surfaces

INSPECTION: Concrete must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion. The concrete should be at least 2500 psi and feel like 30-grit sandpaper. The concrete should be porous and be able to absorb water. A minimum of 28 days cured is required on all concrete. Relative humidity in the concrete floor slab should be below 80% (per ASTM F-2170). All moisture should be kept away a min. of 72hrs before application and a min. of 72 hours after installation. This includes sprinklers, rain, fog, dew, etc.

Before starting flooring work, test the existing concrete slab to make sure there is no efflorescence or high levels of alkalinity. Alkalinity refers to a high pH reading which means the floor is not neutral. A high alkaline environment can cause salts to creep up through the cement called efflorescence. These salts tend to prevent or destroy the bonding of coatings to the concrete. The most common form of testing is the use of a wide-range pH paper or tape. Make sure the floor's pH reading ranges between 5-9 to ensure adhesion. The testing of concrete for alkalinity can show the amount of alkalinity only at the time the test is run and cannot be used to predict long-term conditions.

Calcium chloride tests should be conducted to determine if the concrete is sufficiently dry for a floor coating installation. The calcium chloride tests should be conducted in accordance with the latest edition of ASTM F 1869, Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. When running a calcium chloride test, it is important to remove any grease, oil, curing agents, etc. so accurate readings can be obtained. A rate of 3 lbs/1000 ft²/24hr period or less is an acceptable amount of vapor pressure for the Polytek Polyaspartic Fast. If the reading is any higher, please consult Polytek for further instructions.

Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or altogether failure of the coating system. Testing is the responsibility of the applicator. Polytek bears no responsibility for failures due to any of the above conditions.

SURFACE PREPARATION:

Over Concrete: Concrete should be mechanically profiled by shot-blasting or diamond grinding. When using other methods or scarification, make sure it is roughed to feel like 30 grit sandpaper so that it is porous and contaminant-free so the product can soak in and properly bond.

Over Epoxy or CRU: Apply directly over new epoxy or Urethane within 24 hours of initial application. When applying over existing epoxy or CRU that has been cured for longer than 24 hours, sand the surface with 100 grit sandpaper, remove debris and wipe with acetone just before new application.

MIXING INFORMATION: As Coating over Concrete, Epoxy, or CRU: Before application, Polyaspartic Fast A-Side and B-Side should be pre-mixed in their individual containers. Add 1 part of the A-Side to 1 part of the B-Side while mixing, using a mechanical mixer (Jiffy Mixer) at low to medium speeds. No thinning is necessary. Mix until a homogeneous mixture and streak-free appearance is attained (approximately 3 minutes). Use care to scrape the sides of the container to ensure that no unmixed material remains.

APPLICATION: For best results, the material should be spread by squeegee or magic trowel and finished with a mohair roller cover. Neatly cut-in all edges with a brush and spread thin and evenly throughout the surface to be coated. After spreading evenly, lightly back roll using a 1/4" solvent-proof, non-shedding nap roller for smooth surfaces and a 3/8" nap for rough surfaces. Be sure to roll gently and evenly in a "V" pattern, rolling in both directions. Avoid over rolling as this may cause unwanted bubbles or roller marks. Avoid puddling, as the material will turn white and bubble. Brush all puddles and expansion joints to avoid this problem. You have approximately 20 minutes to work with, as the product will begin to "tack-up" as it begins to cure.

Re-coat if needed within 24 hours of application to ensure adhesion. If a delay occurs, it is recommended that the surface be sanded and wiped clean with acetone before reapplication.

MAINTENANCE: Cleaning the Polyaspartic is best done by mopping the surface with mild soap and water or a mild detergent. For best appearance, Polytek recommends resealing the surface every 3-4 years. Reseal by lightly sanding existing coating, cleaning surface, and applying over the dry surface using the above application specifications.



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LIMITATIONS:

- Do not apply at any temperature below 50°F or above 90°F.
- Do not apply unless the temperature is 5° above the dew point or if rain is expected within 24 hours.
- Do not apply on the damp or moist surface as it will whiten and may cause delamination.
- Do not allow to freeze.
- Always apply on a test area before starting an actual job.
- Before coating previously sealed surfaces, do a small area to test for adhesion.
- Shelf life of this material is 12 months from the date of manufacture (see the batch number for manufactured date).
- Polytek recommends the use of angular slip-resistant aggregate in all coatings or floor systems that may be exposed to wet, oily, or greasy conditions. It is the contractor and end user's responsibility to provide a flooring system that meets current safety standards.
- OK for use in residential garages in all districts of the United States
- Please become familiar with local Air Quality laws and regulations before applying this coating. Polytek bears no responsibility for improper usage.

CLEAN UP: Uncured material can be removed with a solvent. Cured material can only be removed mechanically. All empty containers must be disposed of according to local, state, and federal regulations.

DISCLAIMER: The information contained herein is considered accurate; however, Polytek® Development Corp. makes no warranty regarding its accuracy. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use. For further details, review our standard Terms & Conditions of Sale.