



# BRICKFORM® Poly-Astic

## Premium, High-Gloss, Poly-Aspartic Sealer - Zero VOC

### PRODUCT DESCRIPTION

BRICKFORM Poly-Astic is a two-part high solids, durable, and high gloss sealer designed for interior use on concrete or masonry surfaces. Poly-Astic is designed for two coat application resulting in a water clear finish. Poly-Astic provides an extremely durable finish ideal for commercial or residential interior concrete flooring. Poly-Astic does not yellow or deteriorate under UV rays. It is highly resistant to most chemicals and will greatly increase the service life of concrete and concrete overlay flooring.

Poly-Astic is a Polyurea sealer made with premium resins, it is non-yellowing and resistant to oil, gasoline, grease, acid, deicing salts, ultra violet rays, wet and dry abrasion, and most household chemicals. Poly-Astic contains unique resins and solvent formulations designed for maximum penetration into the concrete pores providing great adhesion to the surface. It enhances the depth and color of natural surfaces and provides a long lasting protective, mirror like finish that's ideal for decorative concrete surfaces.

Brickform Poly-Astic complies with the FDA US Food Code 6-101.11 for indoor construction materials when applied over flat, un-textured areas. The product, when applied according to the guidelines below, will provide a smooth, durable, non-absorptive, easily cleanable surface that meets the standard set forth in the FDA guideline for food service operations including food preparation areas.

Poly-Astic is a two part Zero VOC sealer. It should not be diluted with xylene, toluene or any solvent. Do not thin. Use straight as it comes.

### FEATURES

- Zero VOC, compliant in all states. CA & NY included.
- Non-yellowing.
- Dries water Clear.
- Penetrating.
- Fast drying.
- Enhances color of decorative concrete.
- Reduces alkali/efflorescence attack.
- Resistant to chemicals.
- Prolongs life of surface.
- Freeze thaw resistance exceeds 360 cycles.
- Maintains surface cleanliness.
- Easy to apply
- Prevents mildew and fungi.
- Improves weathering resistance of natural and manufactured brick products.
- 65% Solids Content

### SURFACE PREPARATION

Surface Preparation Guidelines for all Brickform Sealers

Surface preparation is the most important process when using any topically applied product available from Brickform. Brickform follows the surface preparation techniques recommended by the International Concrete Repair Institute outlined in its Guideline No. 03732 Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays. This Guideline is available at [icri.org](http://icri.org) and Brickform highly recommends obtaining a copy and thoroughly familiarizing yourself with the various processes for accurately preparing concrete slabs.

Unless noted in earlier sections of this Technical Information Sheet (TIS), the slab must be fully cured for this product to perform properly. Generally speaking, newly poured slabs must be at least 28 days old. The curing conditions including temperature and humidity have a dramatic effect on how fast or slow the slab cures. Cooler conditions will slow the curing process and these factors must be considered when determining whether a slab has adequately cured for the installation of this product.

Surface preparation requirements are different for every slab and the installer must determine what process is appropriate for the slab they are working on. The recommended surface profile for Brickform sealers is a CSP 1 or CSP 2 as defined by the Guideline 03732 mentioned above. The application area must be profiled and then thoroughly cleaned. All grease, oil, stains, stain residues, rust, sealers, waxes and the like must be completely removed prior to application of the product.

The use of Brickform E-Etch, a mild etching and cleaning solution, followed by Brickform's Neutra-Clean and clean water rinses may be appropriate for the slab. Please refer to the TIS for these Brickform products for proper use. See also the Brickform E-Etch video online at [www.brickform.com](http://www.brickform.com).

Acid etching with Muriatic (Hydrochloric) Acid solutions may be appropriate for slabs that require more aggressive etching and cleaning. Solutions as light as 1:20 (acid:water) to as heavy as 1:1 may be necessary depending on the slab finish. When acid washing, it is very important to protect surrounding areas from damage. Plant and animal life, certain finishes on houses, metals, and the like can all be negatively impacted if acid solutions are not used responsibly. Be sure and wear proper personal protective equipment when acid washing. Always pre-wet slabs that are to be acid washed and always neutralize the slab with Brickform's Neutra Clean following the acid wash. Do not allow acid solutions to dry on the slab as dried residues will prevent the sealer from bonding. See [www.brickform.com](http://www.brickform.com) for a video on How to Acid Wash Concrete.

Other mechanical techniques such as grinding, scarifying, shotblasting or sandblasting may be necessary to prepare the slab. See [www.brickform.com](http://www.brickform.com) for other surface preparation techniques using mechanical methods.

Old sealers and cure and seal products must be removed as well. Brickform's Strip-It is an alternative to mechanical methods for their removal. Please review the TIS for Strip It prior to using this product.

The application area must be completely clean and free of grease, oils, dirt, rust, waxes, and organic stains. Mechanical removal of these may prove aesthetically displeasing. There are a number of stain and wax removers and enzymatic cleaners available either commercially or via the internet that work well in these situations.

When using pressure washers to clean slabs, use equipment with a minimum of 3000 psi at 4 gallons per minute. Rotary floor scrubbers with black or red pads are effective for cleaning flat floors. When using rotary floor scrubbers on stamped slabs, nylon bristle brush attachments are necessary to reach imprinted areas effectively.

Once the slab has been profiled, all contaminants and potential bond breakers removed, and thoroughly cleaned, allow the slab to complete dry prior to application of the product.

NOTE: Brickform strongly recommends jobsite samples or mock ups with these products. Individuals who will be performing the work should test different sections of the concrete to determine suitability, coverage, coverage rates and final appearance.

This product is not recommended for pre-sealed or dense surfaces such as glazed tile, marble or granite, dense brick, dense slate, or terrazzo. Dense, power trowelled concrete slabs MUST be properly profiled and cleaned for proper adhesion of this product. Properly prepared surfaces will readily absorb water. Water beading up or remaining on the surface indicates additional preparation and cleaning is required.

Do not use this product where hydrostatic pressure is present.

## PRIMING

No primer is necessary.

## MIXING

Mix Part-A and Part-B in equal parts by volume. Do not mix more than can be put down in 20 to 30 minutes, less time if it is a hot day.

## APPLICATION

**Polyastic must be recoated within 4 hours. Do not recoat after 4 hours from the first coat.** Apply with a short nap, lint-free, solvent resistant roller cover (1/4" to 3/8") at a rate of 200 to 400 square feet per gallon. The second coat should be applied within 4 hours of the first coat. If more than 4 hours has passed since first coat then sanding will be required to insure bonding of second coat. Do not apply if ambient temperature is above 85F, at higher temperatures there may be significantly shorter potlife.

## LIMITATIONS

- Substrate must be fully dry before application. If not sure of the conditions a moisture test should be performed before sealer application.
- Polyastic must be recoated within 4 hours. Do not recoat after 4 hours from the first coat.
- Substrate must be prepared according to TIS.
- Do not apply at temperatures below 35°F (7°C)
- Do not apply if rain is expected within 6 hours of completed installation.
- Do not apply other coatings (epoxy, urethanes, etc.) over this material.
- Do not install concrete overlays, other toppings or surface treatments over this material.
- Do not install in enclosed structures without adequate ventilation.
- Test area for sealer acceptance and desired results.
- Clean tools and equipment with Xylene.

BRICKFORM strongly recommends the use of a Moisture Vapor Evaporation Rate test in accordance with ASTM F1869. Results should not exceed 5 pounds per 1000 square feet per 24 hours based on the recommended test period. Relative humidity tests are strongly recommended as well when used in accordance with ASTM F2170. Results should not exceed 75%. Excessive moisture vapor evaporation rates can soften overlay materials and sealers, cause premature wear, discoloration and/or lead to a complete loss of bond from the concrete slab. Overlays and sealers should always be installed over pH neutral concrete substrates.

## TECHNICAL DATA AND SPECIFICATIONS

Coverage Rate.....	200 to 400 ft <sup>2</sup> per gallon
Packaging.....	2 gallon Kit
VOC.....	0 Gms x liter
Color.....	Water clear
Water Miscible.....	No
Solids.....	65 %
Shelf Life.....	36 months
Recoat Time.....	2 to 4 hours
Application Temperature.....	35°F to 85°F
Flash Point.....	114 ° F

## CHEMICAL RESISTANCE

Reagent:	Rating:
Transmission Fluid .....	No effect
Gasoline.....	No Effect
Motor Oil.....	No effect
5% Sulfuric Acid.....	No effect
30% Hydrochloric Acid.....	No effect
Detergent.....	No effect

## MAINTENANCE

Wax floor (minimum 3 to 5 coats for commercial floors).

Clean waxed floors with neutral cleaner (high or low pH cleaners will damage the wax), follow dilution ratios from manufacturer, rinse well after cleaning.

Reapply wax/buff as needed.

Clean spills quickly, do not allow aggressive chemicals to stay on the surface for long.

## WARNING

**COMBUSTIBLE:** Contains solvents. Vapor and spray mist may be harmful. Overexposure may cause lung damage and allergic skin and respiratory reactions. Repeated and prolonged exposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness, and loss of coordination are signs that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Do not breathe vapor or spray mist. A POSITIVE-PRESSURE, SUPPLIED-AIR RESPIRATOR IS RECOMMENDED with eye protection, gloves, and protective clothing during application. A vapor particulate respirator may be appropriate where airborne monitoring demonstrates vapor levels below ten times the applicable exposure limits. In all cases, follow respirator manufacturer's directions. Do not permit anyone without protection in the working area.

Keep away from heat, sparks, and flame. VAPORS MAY CAUSE FLASH FIRE. Close container after each use. Use only with adequate ventilation. Do not breathe vapors, spray mist, or sanding dust. Do not get in eyes or on skin. Wash thoroughly after handling.

Read the appropriate Material Safety Data Sheet before use, available at [www.brickform.com](http://www.brickform.com).

## FIRST AID

If affected by inhalation of vapors or spray mist, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and call a physician. For skin, wash thoroughly with soap and water. In case of ingestion, DO NOT induce vomiting. Get medical help immediately.

## IN CASE OF:

**FIRE** – Use foam, CO<sub>2</sub>, dry chemical, or water fog.

**SPILL** – Absorb with inert material and dispose of in accordance with applicable regulations.

**DISPOSAL** – Empty container with product residue may still be flammable; follow all hazard statements until it has been disposed of. Consult your sanitation department for more information on disposal of empty containers. Contact your local or state-designated environmental agency for information concerning re-use, recycling, or disposal of solvent-borne paint.

## WARRANTY

BRICKFORM warrants this product to be free from manufacturing defect. Since no control is exerted over it's application and use, BRICKFORM makes no warranty, either expressed or implied, concerning this product. Seller and manufacturer's obligation shall be limited to replacing that portion of the product proven to be defective.

## MANUFACTURER

BRICKFORM, A Division of Solomon Colors, Inc.

## ORDER SPECIFICATIONS

### Poly-Astic

Container Size	Item No.
2 gallon kit	PA-1
2 quart kit	PA-25