

FASTEX

TECHINICAL DATA SHEET

DESCRIPTION

FASTEX is a two-component, 98% solids, VOC Compliant Polyurea that was developed as a primer/basecoat for a variety of coating systems. This coating provides exceptional adhesion to a large number of substrates and performs well in a wide range of temperatures and climate conditions. Extended working time makes it a great choice for both residential and commercial application.

FEATURES AND BENEFITS

- Displays moderate cure times with excellent adhesion characteristics to a variety of substrates / coatings.
- Can be spray or roll applied at temperatures ranging from 0-110°F and in high humidity.
- Long “open times” allow for self-leveling capabilities and increased hiding power as well as consistent broadcasts of decorative aggregate.
- Emits virtually no odors and can be applied indoors with minimal disturbance contributed to high VOC levels that are found in most epoxies and polyurethanes.
- Can be applied to vertical surfaces as a primer/basecoat or stand-alone coating.
- Easy to mix 1:2 ratio.

INDUSTRY STANDARDS AND APPROVALS

LEED v4 Points Contribution	LEED Points
Health Product Declaration (HPD)*	Up to 2 points

Using this product may help contribute to LEED certification of projects in the category shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

- Wall coating over sheetrock, wood, and concrete
- Primer / Basecoat for use on concrete, wood, and block
- Aircraft hangar floors
- Automotive shops
- Maintenance facilities
- Offshore platforms
- Industrial shop floors
- Car washes or wash bays
- Bathrooms and locker rooms
- Sidewalks and walkways

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- Wastewater treatment applications
- Bridge decks and pillars

LIMITATIONS

- Do not use over structural cracks, in-plane cracks wider than 1/8" (3 mm) or where vertical out-of-plane movement occurs.
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal. See the "Suitable Substrates" section below.
- Do not use where excessive substrate moisture and/or negative hydrostatic pressure exists.
- Do not use with premixed setting materials.
- Do not allow direct contact with solvent-based materials.

SUITABLE SUBSTRATES

Concrete (cured at least 28 days)

- Cured cement mortar beds or leveling coats
- Cement backer units (CBUs) – see manufacturer's installation guidelines
- Properly prepared radiant-heated substrates (interior only)
- Properly prepared ceramic tile, porcelain, cement terrazzo floors.

Note: Existing unglazed ceramic tile must be abraded, and existing cement terrazzo must be mechanically profiled.

- Exterior-grade plywood (for interior residential floors and countertops in dry conditions only)

SURFACE PREPARATION

All POLICRETE products require a surface preparation. The surface should be grinded, repair and be flat. Read all installation instructions thoroughly before applying the products (see TDS and SDS).

- All substrates must be structurally sound, stable, clean and free of any substance or condition that may reduce or prevent proper adhesion.
- Do not use chemicals (acid etching or stripping) to prepare approved substrates.
- Concrete substrates should have an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #2. Mechanically clean and profile by diamond-cup grinding or another engineer-approved method when necessary.
- Substrate and ambient temperatures must be between 0°F to 75°F during and at least 24 hours after application.
- Fill all cracks and gaps that are greater than 1/32" (1 mm) with an appropriate filler material. Force the material into cracks, finish it smooth with a trowel and let it dry.

PRODUCT APPLICATION

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Do not scrape the sides or bottom of the container. Use only the material that flows naturally out of the container. Also, do not turn the container upside down and leave on the floor to drain. Doing so may result with unactivated material from the sidewall of the container being applied. This will cause soft spots in the coating.

Mixing

Thoroughly mix each component separately before combining.

If only using part of a container, be sure to use a separate mixer blade for each component to avoid cross contamination.

NOTE: The Part B component uses a moisture scavenger in its formulation to pull out any moisture which may have entered during the filling process. When this occurs, the scavenger settles out as a solid in the container. There is no need to try and mix this hard settled material into the liquid. Keep your paddle mixer above the packed out scavenger and pre-mix as normal. It is still required to pre-mix the material prior to use. Another option would be to transfer the material to a different mixing bucket, then mix as normal.

Pour the Part A and Part B components together in a clean, dry five gallon container and power mix at 500-700 rpm for a minimum of two minutes. Do not entrain air into the mixing. Do not mix more material than can be applied in 20-25 minutes.

If using less than a full container, combine the components using a mixing ratio of 1:2 by volume, Part A to Part B.

TINTING (Clear)

Tinting is only to be done after Part A and Part B have been thoroughly mixed. If tinting, add 12% by volume of the Colorant (1 quart of tint per 2 gallons of activated material). Power mix until a uniform color is achieved.

If there are any questions on the tint process of this product, please consult our technical service department.

Roller

Use only phenolic core, solvent resistant, natural or synthetic fiber roller covers. ¼" to 3/8" nap are acceptable, thicker nap may cause bubbling of the coating.

Brush

Inexpensive natural fiber chip brushes are suggested – 2" to 4" width depending on the application. These will be one-time use items.

Clean Up

Use Acetone or Xylene before product cures.

Product is sold CLEAR.

Typical Physical Properties

Tensile Strength	ASTM D412	3600
Elongation	ASTM D412	198

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Tear Strength (PLI)	ASTM 2240	350	
Flexibility, 1/8" Mandrel	ASTM D1737		Pass
Impact Resistance	ASTM D2794		250/284 in. lbs. Direct Reverse

Recommended Coverage

Over Concrete 250-350 sf/gal @5.3 mils DFT

VOC compliant in all 50 states and Canada

Surface Preparation Concrete

Shelf Life and Storage

Twelve months in factory delivered unopened drums and buckets. Keep away from extreme heat, cold and moisture. Maintain at a proper storage temperature of 50-90° F. Keep out of direct sunlight and away from fire hazards.

Repairs and Maintenance

This material can be caulked or brushed on the surface after scuffing. Re-application of the product after 12 hours of initial application requires the use of a primer and/or sanding and solvent wiping to achieve optimum adhesion.

Safety and Handling

See MSDS sheets

Packaging

Available in 3 gallon kits, 5 gallon pails and 55 gallon drums.

CHEMICAL RESISTANCE

Chemical Result (25°C)			
Acetic Acid 100%	C	Hydrofluoric Acid 10%	NR
Acetone	C	Hydraulic fluid (oil)	RC
Ammonium Hydroxide 50%	RC	Isopropyl Alcohol	R
Benzene	C	Lactic Acid	RC
Brine saturated H2O	RC	MEK	NR
Chlorinated H2O	R	Methanol	R
Clorox(10%) H2O	R	Methylene Chloride	C
Diesel fuel	RC	Mineral Spirits	RC
Gasoline	RC	Motor Oil	R
Gasoline/5% MTBE	RC	MTBE	C
Gasoline/5% Methanol	RC	Muriatic Acid 10%	R
Hydrochloric Acid 20%	RC	NaCl/H2O 10%	RC
		Nitric Acid 20%	NR
		Phosphoric Acid 10%	R

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Phosphoric Acid 50%	NR	Sugar/H2O	R
Potassium Hydroxide 10%	R	Sulfuric Acid 10%	R
Potassium Hydroxide 20%	R, Dis	Sulfuric Acid >50%	NR
Propylene Carbonate	RC	Toluene	RC
Skydrol	C	1, 1,1-Trichlorethane	C
Sodium Hydroxide 25%	R	Trisodium Phosphate	RC
Sodium Hydroxide 50%	R. Dis	Vinegar/H2O 5%	R
Sodium Hypchlorite 10%	R	H2O	R
Sodium Bicarbonate	RC	H2O 14 days at 82°	C R
Stearic Acid	R	Xylene	RC

CHEMICAL RESISTANCE: CHART KEY

R=recommended/little or no visible 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=discolorative

Safety Precautions

DANGER!! Vapor and Atomized liquids are harmful. Overexposure may cause lung damage, allergic skin reactions, or respiratory reactions. Effects may be permanent, may affect the brain or nervous system causing dizziness, headaches, or nausea. Use only in well ventilated areas, wear approved respirators when necessary. Keep out of reach of children. See MSDS for First Aid recommendations.

Shipping Information

Flash Point: 140°C (284°F)

Weight/Gallon: 9.9 ±1.0 lbs.

DOT HAZARD CLASS N / A

DOT PACKAGING GROUP II

DOT LABEL N / A

DOT SHIPPING NAME Paint Related Material

DOT PLACARD N / A

UN / NA NUMBER N / A

LEGAL NOTICE

The technical data and any other printed information furnished by POLICRETE are true and accurate to the best of our knowledge. FASTEX conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. POLICRETE makes no warranty; expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED POLICRETE WARRANTIES.



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Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLE SHOULD HAVE BEEN DISCOVERED.