PSI-590 Primer for Non-porous Surfaces

Product description

PSI-590 Primer is a colorless, non-staining, single-component primer designed to promote adhesion of PSI polyurethane and polysulfide sealants to non-porous surfaces. It consists of moisture reactive organosilanes in a hydrocarbon solvent.

Basic uses

PSI-590 Primer is applied to metal, glass, ceramics, glazed surfaces and various plastics, including polyester, polystyrene, PVC (rigid and flexible), and EPDM to provide high-strength adhesion for PSI's polyurethane and polysulfide sealants. It can also be used on wood, concrete and masonry surfaces where a non-staining primer is necessary. Because of the wide variability of substrates, all applications should be thoroughly tested and evaluated before actual use.

Application limitations

- If sealant cannot be installed within 8 hours, reprime.
- Do not apply over wet or damp substrate.
- Do not apply primer to backer rod to prevent three-sided adhesion.

Packaging

Available in quart (946 ml) cans.

Application

Preparation: The surfaces to which primer is applied must be clean, dry and free of laitance, loose aggregate, mastic compounds, waterproofing compounds, grease, oil, wax, rust, corrosion and previously applied sealants.

Application: Apply primer by brush, roller, or spray in a thin continuous film. Avoid pools, runs and drips. Allow primer to become dry to the touch before installing sealant.

Clean up: Equipment can be cleaned immediately after use with xylol, mineral spirits or isopropyl alcohol. When using flammable solvents, consult manufacturer's MSDS for safety precautions.

Shelf life: One year from date of shipment when stored in original, unopened container at temperatures between 40 and 80°F (4 to 27°C).

Technical services

PSI provides field service, performance data, specification assistance and use evaluations.

Adhesion testing by PSI: This program is intended to eliminate potential field application problems by pre-testing the adhesion of PSI's construction sealants on samples of building materials submitted by the customer. The tests will aid in determining the proper surface preparation method, effective solvents for cleaning and whether priming is necessary to achieve optimum adhesion. Following this procedure will remove many of the variables that affect field success.

Test samples should be identified as to manufacturer, origin, designed use, building project, person and firm originating the request. Appropriate sketches of drawings showing the

Application Properties*	
Consistency	Colorless liquid
Specific gravity	0.8
Density	6.7 lb/gal
Dry time from priming to sealant application, dependent on ambient temperature and relative humidity	15 to 60 minutes
Open time	8 hours
VOC content	6.5 lb/gal
Flash point	104°F (40°C)

** Typical properties are for information only, not for purposes of specification.*

intended use can be helpful. They should be sent to the attention of PSI's Technical Director.

Jobsite testing of substrates: A field test can be performed by applying several feet of the sealant to a representative joint and letting it reach full cure. Make a cut in the cured sealant across the joint the entire depth of the sealant. Make two vertical cuts several inches long, paralleling the sides of the joint as closely as possible and extending down from the cross cut. Grasp the free length of sealant and pull at a 90° angle to determine if a good bond has developed. With good adhesion, the sealant will usually tear cohesively or be difficult to remove from the surface.

Availability and cost

Polymeric Systems, Inc., is a part of Whitford Worldwide. For more information, please contact Polymeric Systems or Whitford Plastics Ltd. at:

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Tel: [1] 610-286-2500
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In the EU contact:

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10, Christleton Court, Manor Park
Runcorn, Cheshire, UK WA7 1ST
Tel: [44] (1928) 571000
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Health precautions

- Contains a flammable solvent with a flash point of 104°F (40°C). Avoid ignition sources.
- Use adequate ventilation or air-supplied respirators during application. Avoid repeated or prolonged breathing of vapors.
- In case of extreme exposure or adverse reaction, immediately remove affected personnel to fresh air and obtain medical attention.
- Avoid repeated or prolonged contact with skin. Immediately wipe off any material on skin and scrub area vigorously with soap.
- Wash hands before eating or smoking.
- Do not take internally; obtain immediate medical attention if ingested.
- Keep out of reach of children.

For additional safety and health information, consult a Material Safety Data Sheet.

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