PSI-690 Primer for Non-porous Surfaces

Product description

PSI-690 Primer is a single-component solution used as a primer for PSI silicone sealants on non-porous substrates.

Basic uses

PSI-690 Primer promotes adhesion of PSI silicone sealants to metal, glass, ceramics and certain plastics. It also improves adhesion to wood, concrete and masonry surfaces where a non-staining primer is necessary. Because of the wide variability of substrates, it is recommended that product performance be confirmed by pre-testing primer and sealant on project surfaces prior to use.

Application limitations

- If sealant cannot be installed within 8 hours, reapply primer.
- Keep cans tightly closed when not in use as primer will deteriorate when exposed to moisture.
- Do not apply over wet or damp substrates.
- Do not apply primer to backer rod to prevent three-sided adhesion.
- Flashpoint 104°F (40°C).

Packaging

Available in pint (473 ml) and quart (946 ml) cans.

How to use

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

Application: Apply primer by brush, roller, or spray in a thin continuous film, confining application to areas to receive sealant. Avoid pools, runs and drips. Primer should always be applied within the joint confines as product on exposed substrate may discolor or change the refractory value of the substrate. Exposed surfaces can be masked prior to applying primer to prevent application to non-joint surfaces. Any primer applied outside of the joint should be removed immediately with mineral spirits.

Allow primer to dry completely before applying sealant. If the primer application remains open more than 8 hours, reapply a very thin coat of primer.

Cleanup: Equipment can be cleaned with mineral spirits or a comparable solvent. When using flammable solvents, consult manufacturer's SDS for safety precautions.

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

Health precautions

Warning!

Flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation.

Refer to the Safety Data Sheet (SDS) for complete health and safety information.

Technical services

PSI provides 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

Application Properties*

Properties	Results
Consistency	Clear to light liquid
Specific gravity	0.82
Density	6.84 lb/gl (0.8 g/cm^3)
Dry time from priming to sealant application, dependent on ambient temperature and relative humidity	30 minutes to 3 hours
Open time	8 hours maximum
VOC content	6.5 lb/gl (779 g/L)

** Typical properties are for information only, not for purposes of specification. The data above represents product performance in ideal laboratory conditions. Individual users' experience may vary depending on application conditions.*

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 intended use can be helpful. Contact your PSI sales representative for more information.

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.

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