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Product Information Sheet

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PSC 2099 Bonding Primer

PSC 2099 Bonding Primer is a clear, two component bonding agent to be applied prior to an epoxy basecoat to increase bond strength to smooth, dense surfaces, such as ceramic tile, stone (should contain silicate), smooth new concrete, densified concrete, etc. Both components are precisely measured and packaged for on-site mixing and use. Can also be applied to a profiled concrete floor as well.

PSC 2099 Bonding Primer is safe to use, its low odor and VOC compliant formula permits its use in occupied areas without concern, and it can be applied in the proximity of foodstuffs. The chemical action of PSC 2099 leaves no film and will not change the color of concrete. Once the surface of application is visible dry, apply immediately, without delay the epoxy top coat as specified.

Uses

- Bonding agent for epoxy topcoats on stone (should contain silicate), ceramic tile, smooth concrete, densifyed concrete etc.
- Interior or exterior applications.

Advantages

- Meets VOC and Leeds requirements.
- Efficient, saves on labor.
- Fast to apply supporting the contractor for quick turnaround time.
- Can be used on new or old substrates.
- Low odor.
- Allows for easy application of safety lines, company logos etc.

PSC 2099 Bonding Primer is designed to

- Prime surfaces for epoxy applications.
- For all PSC epoxy coatings, PSC 2000, 2001, 2100, 2102, 2300, 2301, 2302, 2304 and 2306.

How does PSC 2099 perform?

- The chemical action on surface of the substrate reacts with the epoxy coating bonding it integrally to the substrate.

General data

VOC	61 g/L
Appearance	Leaves no visible film after application
Mix ratio	Mix 20 volumes of Part A with 1 volume of Part B
Pot life	Approx. 8 hours
Thinning	DO NOT THIN
Flash point	N/A
Coverage	Approx. 800 sq. ft. per gallon. Depending on the substrate
Kit size	2.5 USG (9.48 L) Part A, 1 pint (0.47 L) of Part B.

Coverage will vary according to porosity and texture of the substrate.

Preliminary substrate inspection and surface preparation

The surface must be free from all contaminants that could inhibit the bond of PSC 2099 onto the substrate. The area to be primed must be clean, sound, dry and above + 15 Cº (+ 60 Fº) and less than +30 Cº (+86 Fº) to assure successful application of the topcoat. Concrete, depending on the epoxy to be applied, must be at least 10 days old for water based epoxies or 28 days old for 100 % solids epoxies. Test for vapor drive according to ASTM D4263.

Refer to Product Information Sheets of the epoxy to be used.

Application

PSC 2099 is not a film forming bonding agent. Prepare by mixing 20 parts by volume of Part A into 1part of Part B, stir, and let sit for 5 minutes before use. Pot life is relatively long, approx. 8 hours at + 20 Cº, so fairly large batches can be mixed at a time.

If mixing smaller batches than contained in the containers, **accuracy in measuring the components is essential** to the performance of PSC 2099 Bonding Primer.

Apply a thin coat with roller, squeegee, mop or sprayer. Do not allow to pool or puddle. PSC 2099 does not leave a visible film after application. Once the product is visibly dry, apply without delay epoxy topcoat according to instructions on Product Information Sheets of the epoxy to be used as topcoat. Clean up application tools with clean water.

Limitations

- PSC 2099 is not a cleaning agent. Substrates must be clean, if they have been contaminated with oil, dirt, grease, curing compounds or other contaminants and bond breakers, do not apply PSC 2099. In this case, before applying PSC 2099, contaminants must be removed by mechanical means, such as shot blasting, scarifying or grinding.
- When dealing with smooth concrete, applicators have to differentiate between smoothness caused by concrete densifiers and smoothness caused by the use of sealers and curing compounds. Concrete densifiers leave the surface open enough for the application of our PSC 2099 Bonding primer, other additives and compounds leave an impermeable surface, in which the PSC 2099 Bonding primer will not work and the epoxy will not bond to the substrate. A test can be made by pouring water on the surface of the substrate, if the water beads and does not penetrate after a 15-20 minute period of time, chances are the surface is sealed and bonding primer will not work. If the water beads but penetrates slowly, this means the surface is still open and a liquid can still wet it. A consistent dark color can be seen under the water. The test must be done in several spots across the floor, and also on regular concrete to spot the difference.
  If doubt exists, it is recommended to do a small test in an inconspicuous area with PSC 2099 Bonding primer and epoxy coating and check for proper bonding after a few days. Consult Polymer Science for more information.
- Consult Product Information Sheets of the epoxy to be used as topcoat.

Trouble shooting

Consult Product Information Sheets of epoxy that was used as top coat.

Risks

Contact with skin or eyes may cause burns. Causes respiratory irritation. Ingestion may cause burns or other harms. Intentional misuse by deliberately inhaling the contents may be harmful or fatal.

Precautions

Keep out of the reach of children. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. Do not breathe vapors. Use only with adequate ventilation. Do not take internally. Use impervious gloves, eye protection and if used in poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with federal, provincial, state and local regulations. All label warnings must be observed until container is commercially cleaned or reconditioned.

First aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. Seek immediate medical attention. In case of skin contact, wash affected areas with soap and water. If irritation persists, seek medical attention. If inhalation causes physical discomfort, move into an area of fresh air. If breathing discomfort persists or any breathing difficulty occurs or if swallowed, seek immediate medical attention.

Proposition 65

This product does not knowingly contain materials listed by the state of California as known to cause cancer and birth defects or other reproductive harm.

Packaging

- 2.5 USG (9.48 L) pail Part A.
- 1 Pint (0.47 L) can of Part B.

Warranty Disclaimer

We guarantee our Products to conform to the specifications of Polymer Science Corporation. Polymer Science Corporation makes no warranty or guarantee, express or implied, including warranties of fitness for a particular purpose or merchantability, respecting its Products. Liability, if any, is limited to refund of purchase price or replacement of the Product. All consequential damages, labor and cost of labor are hereby excluded.

For orders or inquiries from Canada, US and Mexico, call toll free 1-866-793-3503 or fax your orders to PSC's customer service @ 403-287-2766.

Polymer Science Corporation develops and manufactures specialty chemicals, industrial and architectural coatings of highest quality. Ask the people who use them.