



FIVE STAR® EPOXY NOVOLAC WATERBORNE PRIMER

PRODUCT DESCRIPTION

Five Star® Epoxy Novolac Waterborne Primer is a two component, highly chemical resistant epoxy primer/sealer for use over green or existing concrete. Five Star Epoxy Novolac Waterborne Primer has excellent adhesion, a rapid drying time and is highly chemical resistant. Contains no volatile organic compounds (VOCs).

ADVANTAGES

- High Chemical Resistance
- Excellent adhesion
- May be brushed, sprayed or roller applied
- Easy Cleanup (soap and water)
- No Volatile Organic Compounds (VOC's)
- Rapid Drying
- Great penetration of concrete
- Low odor
- Mix and apply easily

USES

- Primer/sealer for coating for concrete
- High chemical resistance requirements
- Concrete curing compound

TECHNICAL SUPPORT

Five Star Products maintains the industry's foremost Engineering and Technical Support Group:

- Over 30 years of experience in concrete restoration
- Technical Center staffed with experienced engineers available for consultation
- Design-A-Spec™ for engineering specification assistance
- Experienced representatives for field service
- Corporate research laboratory available to customize products for unique applications

PACKAGING AND YIELD

Five Star Epoxy Novolac Waterborne Primer is packaged in 1 gallon, 3 gallon and 5 gallon units.

Coverage: Approximately 130-140 square feet per gallon @ applied 3 mil thickness on finished concrete surface. Note that coverage is affected by several factors including: condition of substrate, temperature, waste, and job site conditions.

SHELF LIFE Two years in original unopened packaging at normal ambient temperatures

TYPICAL PROPERTIES AT 73°F (23°C)

Color	Light green
Solids by Volume	A component 100%
	B component 42%
Viscosity @77°F/23°C	400-1,000 cP
Pot life	30-60 minutes
Increase in Tensile Bond Strength ASTM D 4541 applied to Five Star Structural Concrete ES at final set; Epoxy coating applied at 6 hours.	50%, > 300 psi (2.0 MPa)
In-Service Time (allow 3-5 hours for maximum cure)	6 Hours
Volatile Organic Compounds	0

The data shown above reflect typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result. Test methods are modified where applicable.



PLACEMENT GUIDELINES

1. SURFACE PREPARATION: Surface must be clean and sound. Remove dust, laitance, grease, curing compounds, impregnations and waxes. Concrete may be sandblasted or prepared by other approved mechanical means.
2. MIXING: Pour all of component B into component A and mix thoroughly. For smaller amounts, mix 2 parts (by volume) of component B to one part component A. Do not mix more material than can be applied within pot life of material, 30-60 minutes depending on temperature.
3. METHODS OF PLACEMENT: Primer may be applied with a brush, roller or squeegee. If concrete surface is particularly dry and hot, dampen the concrete. Remove any puddled water. Apply material in even coats and allow to dry thoroughly (generally 1-6 hours depending on humidity and temperature) before applying any additional coatings,
4. POST PLACEMENT PROCEDURES: Epoxy Novolac coatings may be applied after surface is hard and dry to the touch.
5. CLEAN UP: Clean tools with water and strong detergent solution.

NOTE: PRIOR TO APPLICATION, READ ALL PRODUCT PACKAGING THOROUGHLY. For more detailed placement procedures call the Five Star Products Engineering and Technical Center at 203-336-7900.

LIMITATIONS

- Cold temperatures lengthen cure time, hot temperatures decrease cure time.
- Maximum operating temperature is 200°F (93°C).
- Use of solvents to thin the primer is not recommended.
- Avoid applying in high humidity conditions.

CAUTION: FOR INDUSTRIAL USE ONLY. Irritant, toxic, strong sensitizer. Contains epoxy resin. This product may cause skin irritation. Do not inhale vapors. Provide adequate ventilation. Protect against contact with skin and eyes. Wear rubber gloves, long sleeve shirt, goggles with side shields. In case of contact with eyes, flush repeatedly with water and contact a physician. Areas of skin contact should be promptly washed with soap and water. Do not take internally. Keep product out of reach of children. PRIOR TO USE, REFER TO MATERIAL SAFETY DATA SHEET.

WARRANTY: "FIVE STAR PRODUCTS, INC. (FSP) PRODUCTS ARE MANUFACTURED TO BE FREE OF MANUFACTURING DEFECTS AND TO MEET FSP'S CURRENT PUBLISHED PHYSICAL PROPERTIES WHEN APPLIED IN ACCORDANCE WITH FSP'S DIRECTIONS AND TESTED IN ACCORDANCE WITH ASTM AND FSP STANDARDS. HOWEVER, SHOULD THERE BE DEFECTS OF MANUFACTURING OF ANY KIND, THE SOLE RIGHT OF THE USER WILL BE TO RETURN ALL MATERIALS ALLEGED TO BE DEFECTIVE, FREIGHT PREPAID TO FSP FOR REPLACEMENT. THERE ARE NO OTHER WARRANTIES BY FSP OF ANY NATURE WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH THIS PRODUCT. FSP SHALL NOT BE LIABLE FOR DAMAGES OF ANY SORT, INCLUDING PUNITIVE, ACTUAL, REMOTE OR CONSEQUENTIAL DAMAGES, RESULTING FROM ANY CLAIMS OF BREACH OF CONTRACT, BREACH OF ANY WARRANTY, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR FROM ANY OTHER CAUSE WHATSOEVER. FSP SHALL ALSO NOT BE RESPONSIBLE FOR USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT HELD BY OTHERS."

For worldwide availability, additional product information and technical support, contact your local Five Star distributor, local sales representative, or you may call Five Star's Engineering and Technical Center at 203-336-7900.

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