



## CHEMPRUF® VE PRIMER

### DESCRIPTION

CHEMPRUF VE PRIMER is a multipurpose vinyl ester primer for use on concrete and steel substrates.

### TYPICAL USES

CHEMPRUF VE PRIMER is for use with polyester and vinyl ester coatings, linings and floor topping systems. A conductive filler is available for spark testing systems applied to concrete substrates.

### METHOD OF INSTALLATION

CHEMPRUF VE PRIMER is brush or roller applied.

### PACKAGING AND COVERAGE

#### CHEMPRUF VE PRIMER

##### 1-Gal. Unit (8 lb. [3.6 kg.]) Consisting of:

One - 1-gal. can ChemPruf VE Primer Resin

(7 lb. 13 oz. [3.5 kg.])

One - bottle ChemPruf VE Primer Hardener

(2.5 oz. [71 g.])

Coverage: Approx. 200 ft<sup>2</sup> (18.6 m<sup>2</sup>) at 3 mil WFT

##### 5-Gal. Unit (43 lb. 14 oz. [19.9 kg.]) Consisting of:

One - 5-gal. pail ChemPruf VE Primer Resin

(43 lb. [19.5 kg.])

One - bottle ChemPruf VE Primer Hardener

(14 oz. [397 g.])

Coverage: Approx. 1,100 ft<sup>2</sup> (102 m<sup>2</sup>) at 3 mil WFT

### SURFACE PREPARATION

CHEMPRUF VE PRIMER can be applied to concrete and metal surfaces. The substrate must be structurally sound, clean, dry and free of all contaminants, such as sealers, curing compounds, coatings, oil, dirt, dust and water. Previously applied coatings or paint must be removed.

**Concrete:** Finished concrete must be free of ridges, protrusions, fins, mortar splatter and have a tight laitance-free steel trowel finish. Abrasive grit blasting is recommended. Where impractical, chemical preparation by acid washing is acceptable. A finish similar to the profile of 100 to 120 grit sandpaper is suggested.

The prepared concrete substrate shall have a minimum tensile strength of 250 psi. (1.72 MPa).

Concrete surface must be sufficiently cured and comply with moisture testing as prescribed by ACI Test Method 515 R-16 "Dryness of Surface".

**Carbon Steel:** Metal surfaces should be grit blasted to a SSPC-SP5 or NACE #1 white metal blast cleaned surface finish. Profile height must be 3 (0.076 mm.) to 4 mils (0.102 mm.).

The primer will hold the finish on carbon steel for approximately two weeks at relative humidity of 75%. Should flash rusting occur at any time before ChemPruf 2410 basecoat is applied, the surface must be grit blasted again and reprimed.

For additional information, refer to Surface Preparation, Data Sheet PS-30.

### TEMPERATURE AND CONDITIONS DURING APPLICATION

Store CHEMPRUF VE PRIMER at 70°F (21°C) to 80°F (27°C) for 24 hours prior to use. The best working characteristics of the material will be attained when the temperature of the substrate, air and CHEMPRUF VE PRIMER are between 65°F (18°C) and 85°F (29°C). Minimum temperature for installation is 65°F (18°C). At temperatures below 65°F (18°C), the product may not set or cure properly. Do not apply when the relative humidity is greater than 75% or the substrate temperature is less than 5°F (3°C) above the dew point. Protect primer from moisture contamination.

### APPLICATION OF THE CHEMPRUF VE PRIMER

All substrates must be primed with CHEMPRUF VE PRIMER. Apply CHEMPRUF VE PRIMER with a brush or medium nap roller. Do not allow puddling. Work CHEMPRUF VE PRIMER into the pores of concrete substrates.

The primer shall be applied at a nominal wet film thickness of 2-4 mils ensuring a continuous coat over the prepared substrate. Primer application should not exceed four mils.

The primed surface should be tacky or dry before applying subsequent material. If the primer is allowed to dry for longer than the maximum drying time, the surface must be sanded and the area reprimed before proceeding.

### MIXING OF THE CHEMPRUF VE PRIMER

Stir the contents of the individual resin and hardener containers prior to blending. Mixing of the components should be done with a hand drill equipped with a "Jiffy" type mixer at a mixing speed between 300 and 500 RPM. During mixing, move the mixing blade in circular and up and down motions scraping all sides and the bottom of the mixing container.

**1-Gallon Unit of CHEMPRUF VE PRIMER**

The following mixing instructions are for a batch size of 0.9 gallons (3.5 liters). Estimated coverage of the batch size is 200 ft<sup>2</sup> (18.6 m<sup>2</sup>). Proportionally increase or decrease component quantities to attain larger or smaller batch sizes.

- Combine the contents of the 7 lb. 13 oz. (3.5 kg.) can of CHEMPRUF VE PRIMER Resin with the contents of the 2.5 oz. (71 g.) bottle of CHEMPRUF VE PRIMER Hardener.
- Mix thoroughly for two minutes as described above.

**5-Gallon Unit of CHEMPRUF VE PRIMER**

The following mixing instructions are for a batch size of 0.9 gallons (3.5 liters) or 8 lb. (3.6 kg.). Estimated coverage of the batch size is 200 ft<sup>2</sup> (18.6 m<sup>2</sup>). Proportionally increase or decrease component quantities to attain larger or smaller batch sizes.

- Combine 116 fluid ounces (3.45 liters) of CHEMPRUF VE PRIMER Resin with 2.4 fluid ounces (71 ml.) CHEMPRUF VE PRIMER Hardener\* in a suitable mixing container.  
\*2.4 fluid ounces equals 4.7 tablespoons.
- Mix thoroughly for two minutes as described above.

**MIX RATIO OF THE CHEMPRUF VE PRIMER**

	by Weight	by Volume
CHEMPRUF VE PRIMER Resin	100	100
CHEMPRUF VE PRIMER Hardener	2	2.1

**TYPICAL WORKING AND DRYING TIMES OF THE CHEMPRUF VE PRIMER**

Temperature	Working Time	Minimum Drying Time	Maximum Drying Time
65°F (18°C)	40 min.	8 hrs.	7 days
75°F (24°C)	30 min.	6 hrs.	6 days
85°F (29°C)	20 min.	4 hrs.	5 days

**CLEANING OF TOOLS AND EQUIPMENT**

Steel wool, soap and warm water will remove the materials referred to in this Data Sheet from mixing tools and equipment if cleaning is done immediately after use. Solvents, such as methyl ethyl ketone, toluene or xylene will have to be used if the material has begun to harden. Fully hardened material will have to be removed by mechanical means.

**STORAGE AND SHELF LIFE**

Store all materials in a cool, dry environment. Keep all materials out of direct sunlight. Ideal storage temperature is 40°F to 60°F (4°C to 16°C). Protect from freezing. In unopened original containers, CHEMPRUF VE PRIMER Resins and Hardeners have a shelf life of approximately three (3) months.

**PRECAUTIONS**

The materials referred to in this Data Sheet are for Industrial Use Only. They contain materials that present handling and potential health hazards. Consult Material Safety Data Sheets and the container labels for complete precautionary information.

**TECHNICAL SERVICES**

ATLAS maintains a staff of Technical Service Representatives who are available to assist you with the use of ATLAS products. In the event of difficulties with the application of ATLAS materials, the installation should be stopped immediately and ATLAS' Technical Service Department consulted for assistance.

**WARRANTY**

ATLAS warrants that its products will be free from defects in workmanship and materials under normal use for a period of one (1) year from the date of shipment by ATLAS (provided the products are installed before the expiration of the shelf life). THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR THE PURPOSE FOR THIS PRODUCT WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ATLAS' LIABILITY FOR ALLEGED BREACH OF THIS WARRANTY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT (BUT NOT INCLUDING REMOVAL OF THE DEFECTIVE PRODUCT OR INSTALLATION OF REPLACEMENT PRODUCTS). ATLAS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES DURING THE WARRANTY PERIOD OR THEREAFTER. **ATLAS' WARRANTY IS VOIDED IF PAYMENT FOR PRODUCT IS NOT RECEIVED IN FULL.**