Protect VE-SR Resin
Solvent-Resistant Vinyl Ester Resin

DESCRIPTION:
Protect VE-SR Resin is a catalyzed, novacul vinyl ester resin for heavy
duty protection of concrete and steel substrates. It is a highly chemical
resistant resin that provides excellent resistance to concentrated acids,
strong solvents, mild alkalis and a broad range of chemicals.

Typical uses
• Broadcast and fiberglass reinforced flooring, wall, and secondary
containment systems.

Advantages
• Excellent chemical resistance
• Excellent bonding and adhesion characteristics
• Long service life

Chemical Resistance
In addition to strong chemicals, this system is best suited for resistant
to strong solvents concentrated acids, and dilute alkalis. Specific
information on the chemical resistance properties will be furnished on
request.

Surface Preparation
Metal - For immersion or intermittent splash and spillage conditions,
abrasive blast to “White Metal” in accordance with
Steel Structures Painting Council Specifications SP-5 or NACE
Specification #1. For fumes and dry environments, abrasive blast
surface to “Near White” in accordance with SP-10 or NACE #2. A
minimum surface profile of 3.0 mils is required.

Concrete:
Abrasive blasting or scarification to remove laitance and surface
contaminants is recommended. Concrete must be thoroughly cured
and dry, free of dust, oil, curing solutions and mold release agents at
time of application. Use ASTM D 4263 (plastic sheet test method) to
ensure concrete is moisture free. If moisture is detected, re-test until
dry.

Application
Mechanically mix Protect VE-SR Resin-A resin (i.e. Part A) individually
prior to adding hardener. If field tinting with Protect CPU colorpack,
add 1 pint per 4 gallons and pre-mix until color is uniform in the pail.
Next, add Protect VE-B hardener and mix one or two minutes.
Primed surface must be dry and free of foreign matter at time of
applying coating or flooring application.

Thinner—None required. DO NOT THIN.

Mixing Ratio - By Volume
Protect VE-SR-A Resin 1 gal
Protect VE-B Hardener 2-3 oz.(kit shipped w/ 2.0 oz. per gal.)
Protect CPU Colorpack 4 oz/gal (optional, supplied in pint can)
Protect VE-Curing Aid 2-3 fl. Oz. (Final Coat ONLY)

Handling Properties
Working Time
Temperature
50°F (10º C) 45 min
70°F (21º C) 25 min
90°F (32º C) 12 min

Time to Recoat
Temperature Minimum Time Maximum Time
50°F (10º C) 6 hrs 2-3 days
70°F (21º C) 2 hrs 2 days
90°F (32º C) 1 hr 18 hours

Coverage
Concrete* varies with system used
Steel varies with system used

Packaging
The following standard packages are available
Protect VE-SR Resin 4 gal units
50 Gal Drum

Color and Pigmenting
Protect VE-SR is available pre-pigmented in #124 Medium Gray and
#332 Brick Red in 55 gallon drums.
Protect VE-SR is available in clear 4 gallon units. An optional pint can of
Protect CPU colorpack may be purchased for in field tinting of these
units. Custom colors will be considered depending on volume required.
Please contact Protective Industrial Polymers for specific details if this is
required.

Storage and Shelf Life
Store material in a cool, dry and covered location [50°-90° F (10° - 32°
C)], away from fire hazards and direct sunlight. Shelf life is from date of
manufacture (DOM).
@ 40-60°F (4-16°C) 4 months
@ 61-85°F (18-29°C) 3 months
@ 86°F (30°C) 2 months

Higher temperature will shorten the shelf life of these products. The
packing drums are to be kept tightly sealed and are to be resealed each
time materials have been removed. All liquid products are to be stored
in a frost-free place.

Safety
Protect VE-SR Resin contains vinyl ester resins and cumene peroxide
catalyst. The product’s components have been formulated to optimize
physical characteristics such as strength and chemical resistance while
minimizing hazardous physical and health factors encountered during
application. A concerted effort is made to be aware of the latest
chemical toxicological information and to apply this knowledge in a
responsible manner to ensure product safety. Please wear respirator
when necessary.

During application of Protect VE-Systems, always wear gloves and
appropriate work clothing to minimize contact. Ventilation is required
with special consideration for enclosed or confined areas. Air
movement must be designed to insure turnover at all locations in work
area and adjacent areas to avoid buildup of heavy vapors. Use caution
when handling flammable liquids, eliminate sources of ignition from
Protect VE-SR Resin

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WARRANTY AND CONDITIONS OF USAGE

WARRANTY AND LIMITATION OF LIABILITY: Protective Industrial Polymers Inc. ("PIP") warrants that its products shall conform to the manufacturer's written specifications and shall be free from defects for one (1) year from the date of purchase. PIP MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES AND DISCLAIMS THE SAME, INCLUDING, WITHOUT LIMITATION, FAILURE OF THE PRODUCT DUE TO ACTS OF GOD, FLOODING, EXTREME OR ABNORMAL TEMPERATURES, HUMIDITY AND MOISTURE, STRUCTURAL CONDITIONS, SITE PREPARATION AND CONDITIONS, ACCIDENTS, DAMAGE CAUSED BY INSTALLATION OF MACHINERY, EQUIPMENT OR FIXTURES WITHOUT ADEQUATE FLOOR PROTECTION OR WITHOUT ADEQUATE TIME FOR CURING, FAILURE TO COMPLY WITH CONDITIONS OF USAGE (SPECIFIED BELOW), VANDALISM, NEGLIGENCE OR INTENTIONAL ACTS OF THIRD PARTIES OR OTHER CASUALTIES. If any PIP product fails to conform to this warranty, PIP shall either replace the product at no cost to Buyer or refund the cost of the product, in PIP's sole discretion. Replacement of any product or a refund of the cost of any product shall be the sole and exclusive remedy available to buyer, and buyer shall have no claim for incidental, special or consequential damages, including, without limitation, business interruption damages. Any warranty claim must be made within one (1) year from the date of delivery of products. PIP does not authorize anyone on its behalf to make any written or oral statements which in any way alter PIP's warranty or installation and storage information or instructions in its product literature or on its packaging labels. Any installation of PIP products which fails to conform to such installation information or instructions or the "Conditions of Usage" (specified below) shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of PIP's products for the Buyer's intended purposes.

CONDITIONS OF USAGE: Installation of all products purchased must be by professional installers periodically published by PIP or otherwise approved by PIP in writing. Modification to any of PIP's products voids the warranty. The installer shall maintain a written contemporaneous record of field conditions (including, without limitation, surface and atmospheric conditions, usage rates, and lot numbers of products installed). PIP reserves the right of inspection of any installed product, installation and maintenance records and records of field conditions and may conduct additional testing as is reasonably required to investigate any warranty claims. Warranty shall only apply for products or materials that have been paid for in full. Moisture Vapor Transmission (MVT) and ASR (Alkali Silica Reaction) Disclaimer and Exclusion: Although rare, some floors at or below grade level are sometimes subjected to saturation by moisture from beneath the concrete floor slab. This moisture can travel through the concrete and collect between floor toppings creating the potential for delaminating from hydrostatic pressure and or ASR. Conditions contributing to this include heavy rainfall, broken pipes, excess hydration within fresh concrete, and other factors or defective and old concrete. These factors are difficult, if not impossible to predict. PIP recommends testing for MVT and/or the presence of ASR in the concrete substrate prior to applying any polymer floor topping. The recommended test method for MVT is ASTM F 2170-11. ASR can be predicted by a higher than normal pH within the concrete. If high pH should be detected, it is recommended a lab test for ASR. If and when delamination of the floor occurs because of a moisture condition that exists beneath or in the concrete slab beyond the capacity of the individual product installed or failure of the concrete due to ASR, this Limited Warranty does not extend to such delaminating or topping failure. This writing constitutes the sole and only agreement of warranty relating to PIP products.

TECHNICAL SUPPORT: For application questions, please contact your salesman or PIP technical service at 440-243-4560. After business hours, please contact 1-800-974-1323.

READ MATERIAL SAFETY DATA SHEET (MSDS) FOR SAFETY AND PRECAUTIONS. KEEP OUT OF REACH OF CHILDREN.