



ChemMasters

DURAGUARD 500

VINYL ESTER PRIMER

SPECIALTY CONSTRUCTION PRODUCTS

P R O D U C T D A T A

DESCRIPTION

Duraguard 500 is a two-component, flexible, vinyl ester primer for use with Duraguard 500 Series coatings and toppings. It is comprised of vinyl ester resin and a catalyst.

USES

- Interior or exterior, horizontal or vertical concrete or steel surfaces
- Industrial, commercial or warehousing applications
- Primary and secondary containment tanks and dikes, chroming and plating facilities, chemical processing plants and laboratories
- Steel processing and pickling plants, airline or vehicular repair bays, petrochemical refineries

ADVANTAGES

- Excellent tensile and flexural strength to withstand impact loading without loss of bond
- Superior resistance to oils, alkalis, acids and oxidizing solutions
- Withstands immersion, fumes and spills of solvents, caustics and organics
- Exceptional durability and service life at elevated temperatures

TECHNICAL DATA

- USDA approved for incidental contact in federally inspected meat, fish and poultry plants

Tensile Strength (ASTM C 307) 2800 psi 19 MPa

Flexural Strength (ASTM C-580) 3200 psi 22 MPa

Tensile Elongation (ASTM D 790) 7 days 5%

Gel Time of 150 ml/0.5 cup/0.5 cup mass

50°F 10°C 60 minutes

70°F 21°C 50 minutes

90°F 33°C 30 minutes

Note: See technical data sheet for selected topping or coating for chemical resistance information

Application Temperature 50°-92°F 10°-34°C

PACKAGING

Duraguard 500 is available in 2 U.S. gallon/7.6 Liter or 5 gallon/19 liter units which are shipped 36 per pallet, shrink wrapped. Duraguard 500 catalyst is packed in 1 U.S. gallon/3.8 liter cans.

ESTIMATING GUIDE

PRIMER: Duraguard 500 @ 8 mils

175 Ft.²/gal 4.3 M²/L

DIRECTIONS

SURFACE PREPARATION: This is the most critical step in any coating application. All concrete must be a minimum of 28 days old and mechanically or chemically profiled. Steel substrates must clean and free of all oils or mill coatings. For complete surface assessment and preparation guidelines, refer to ChemMasters Technical Bulletin, *Floor Preparation Guide*, or contact ChemMasters technical service staff.

Surface to be primed must be thoroughly dry.

MIXING: Duraguard 500 must be thoroughly mixed before application. Based on surface temperature, add the appropriate amount of catalyst for each gallon/liter of resin.

50°F	4 oz	10°C	120 ml
70°F	3 oz	21°C	90 ml
90°F	2 oz	33°C	60 ml

Mix for 3 minutes using a mechanical drill equipped with a jiffiler type mixing prop. Take care not to incorporate excess air into the mix. Blend until a uniform color is obtained.

APPLICATION: Apply the mixed Duraguard 500 by solvent resistant brush, roller, or medium pressure spray equipment. See technical data sheets of subsequent coatings and toppings for proper recoat windows.

Thin Film Tack Out

50°F/10°C	8 hours
70°F/21°C	3.5 hours
90°F/33°C	1.5 hours



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300 EDWARDS STREET • MADISON, OHIO 44057-3112
(440) 428-2105 • FAX (440) 428-7091 • ORDER LINE: (800) 486-7866

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Maximum recoat time without additional surface preparation

50°F/10°C	72 hours
70°F/21°C	48 hours
90°F/33°C	24 hours

CLEANUP

Clean tools and equipment before material dries and sets with acetone, xylene or xylol.

LIMITATIONS

- Do not apply to wet or damp substrates.
- Exposure of mixed material to excessive heat may cause premature gelling and significantly reduce working time.
- Do not apply Duraguard 500 if temperature is below 50°F./10°C. or above 92°F/34°C. Temperature at time of application must be 5° higher than the dew point. For additional data on good coating practice, consult SSPC and/or NACE.
- Avoid applying any polymer coating in direct sunlight during times of extreme heat. This can cause wrinkling, pinholes and blistering. Application should be scheduled for early morning or late afternoon when ambient and substrate temperatures are at their lowest.
- Duraguard 500 is not formulated as a stand alone material, it is not a traffic bearing coating.
- All vinyl ester resins have a minimal shelf life. Allow sufficient lead time when ordering and do not order more material than can be used within three months of date of

manufacture.

STORAGE

Store factory sealed containers of unmixed material at 50°-75°F/10°-24°C temperatures away from direct sunlight and sources of heat. Temperatures in excess of 75°F/24°C cause premature aging of the material. Shelf life of properly stored material is three months from date of manufacture.

CAUTIONS

FLAMMABLE LIQUID: Keep away from heat or open flames. Use with adequate ventilation. May cause skin, eye and respiratory tract irritation. Do not take internally. Keep out of reach of children.

ORGANIC PEROXIDE: Keep away from all sources of heat including sunlight. Causes eye, skin and respiratory tract irritation. May cause allergic skin reaction. Do not take internally. Keep out of reach of children.

All label precautions and the MSDS must be fully understood before using this product.

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT

We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.