

DURAPREP® | PREP 220

DESCRIPTION

Commercial Coating Remover (Gel): Lifts urethanes, alkyds, siloxanes, and most two-component epoxies. Ideal for removing thick film concrete floor coatings. Use on nearly all substrates, including steel, aluminum, concrete, composite, and masonry.

PRINCIPAL CHARACTERISTICS

- Excellent cleaning of soiled and chalked surfaces
- Lower viscosity allows for self-leveling on horizontal surfaces
- Will add 1 - 2 mils of surface profile on concrete after 5 - 6 hours of dwell time
- Maintains the surface profile of metallic substrates that was present before application
- Does not affect glass or rubber
- Can be sprayed with standard equipment
- Easy clean up with soap & water or denatured alcohol
- Water-based, non-flammable
- Flash Point: >221°F (105°C)
- Freezing point: 32°F (0°C)
- Boiling Point: 212°F (100°C)
- pH 2
- Coverage: 25 to 90 sq. ft. /gal. (theoretical)
- Recommended uses:
 - Lifts epoxies, urethanes, siloxanes, architectural coatings, and powder coatings
 - Floor coating removal
 - Lifts lead containing alkyds while reducing hazardous dust in the work area as compared to sanding or grinding
 - Coating removal from many plastic and fiberglass surfaces (test patch required)
 - Commercial manufacturing and processing facilities
 - Any area where abrasive blasting is not an option for environmental or economic reasons or if damage to the substrate is a concern

COLOR AND GLOSS LEVEL

- Orange gelled emulsion

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	One
Mass density	8.3 lb/US gal (1.0 kg/l)
VOC (Supplied)	max. 3.3 lb/US gal (approx. 397 g/l)
Shelf life	At least 24 months when stored cool and dry

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Surface temperature should be 50°F to 95°F (10°C to 35°C)
- Prep 220 performs effectively at lower temperatures, but the dwell time must be increased. Above 85°F (30°C), product may need to be over applied, reapplied, or covered with plastic to prevent drying during dwell time. Prep 220 may not strip thick film, highly chemical resistant epoxies in acceptable timeframes.

INSTRUCTIONS FOR USE

- **TEST AREA:** Always prepare a test area of varying stripper thickness prior to full application. This will indicate the time required for completion, approximate square footage usage, and suitability of product for the paint and the substrate.
- **MASKING:** Cover / protect areas where stripping is not desired, including adjoining surfaces where over spray may travel. Plastic (polyethylene) sheets make a very effective barrier. If using masking tape, apply two layers of tape and remove the top layer immediately after application, as the remover may soak through the tape, damaging paint under it. Spray all plants and vegetation liberally with water before application. Cover delicate vegetation to avoid damage.
- **MIXING:** If any separation has occurred, thoroughly mix the stripper with a drill mixer until it becomes homogeneous once again, usually 2 - 5 minutes. **DO NOT MACHINE SHAKE. DO NOT DILUTE.**
- **EQUIPMENT AND TOOLS:** Prep 220 is engineered for airless spray application. Ensure application equipment is free of any previously applied products, chemicals, or solvents (especially mineral spirits). Clean with denatured alcohol prior to use. Use only professional airless equipment with chemical resistant packings, such as Graco 390 or larger pump. Equip the sprayer with a tip size of 0.019 inch or larger (example: a 519 or 425 tip). Other equipment: brushes, rollers, scrapers, masking tape, plastic (polyethylene) sheets, pressure washers, electric drills with mixers, empty pails for clean up, water. Roller application is not recommended.
- **DWELL TIME:** The time required for penetration varies according to the type of paint and the temperature. Most paint systems require 2 to 24 hours. Leave the stripper overnight for best results. Dwell time and stripper thickness required are best determined by a test area.
- **APPLICATION:** Apply a thick, even layer of stripper onto the coating being removed. An airless sprayer is the most effective means of application. Always start the sprayer pump at the lowest pressure setting and slowly build up the pressure until an adequate fan pattern has been produced. The minimum wet film thickness should be 15 mils (300 microns). The stripper must be applied 1.5 to 2 times thicker than the coating to be removed; e.g., 20 mils of coating requires 28 - 40 mils of stripper to be removed effectively. High pressure and narrow tip sizes will break the stripper's emulsion and will reduce its effectiveness. When trying to build up films thicker than 30 mils (600 microns), it is advisable to build the stripper film in two separate applications. First apply a light coat of approximately 15 mils (thick enough to hide the surface color of coating), allow it to dwell for about 5 - 30 minutes and then build the rest of the stripper film thickness in the second application. Once applied, leave the stripper alone, as agitation slows down penetration. Brushing and rolling should be avoided because these methods produce lower film build and inconsistent thickness of stripper.
- **REAPPLICATION:** When there are multiple layers of paint, it is quite likely that there is poor intercoat adhesion between some layers. Premature lifting may occur at this interface. If this happens, remove the lifted layers and reapply the stripper. Do not allow the stripper to dry out. The stripper is designed to remain wet and effective over extended periods of time (up to 48 hours), but excessive sunshine, windy conditions, or insufficient stripper thickness can cause early drying. If the stripper starts to dry, reapply a light coating and allow extra time for completion.
- **REMOVAL AND CLEAN UP:** Removal of lifted paint can be completed by scraper, squeegee, or wet / dry vacuum suction system or by pressure wash. If pressure washing is used, protect all areas that may come in contact with stripper residue and removed paint from pressure washer operations. Pressure wash from the bottom up on vertical surfaces to prevent rinse water from deactivating stripper in sections below pressure washing removal operations. The stripped surface can be rinsed with Prep 120 in a 2 fl. oz. - 4 fl. oz. per gallon dilution or denatured alcohol to remove all chemical residues before repainting. Collect lifted paint and dispose of it in accordance with local government regulations. Clean the spray equipment by running water or denatured alcohol through the equipment soon after the spraying has been completed.
- **LIMITATIONS FOR USE:** For professional use only; not intended for household use.

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SAFETY PRECAUTIONS

- Proper safety procedure should be followed at all times while handling this product. Refer to the SDS for important health / safety information before use. SDS are available by calling PPG Technical Service at 800-441-9365 during regular business hours or the 24 hour Emergency Response line at 412-434-4515.
- Do not collect and / or store removed paint and stripper waste residue in metal containers. Only use plastic containers.
- **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. In Canada, contact a regional Health Canada office. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.
- **NOT APPROVED FOR AVIATION USE!**

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. **THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG.** Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

Product code	Description
PREP220	Orange gelled emulsion

Note: Available in 1-gallon, 5-gallon, 55-gallon drums (special order), and tote tanks (special order).

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