



Technical Data Sheet

CrystalCoat™ UV P-201C

UV-Cure Spin Coat Primer

DESCRIPTION

CrystalCoat™ UV P-201C is a UV curable primer for ophthalmic lenses or other plastic parts. Designed to provide an adhesion layer for application to polycarbonate and PMMA substrates.

FEATURES

- Solvent-Based Formulation
- Designed for Polycarbonate and PMMA
- Spin, Flow, or Spray Application

STORAGE AND USE

UV P-201C is flammable and should be stored away from potential ignition sources. Store UV P-201C in closed, properly label containers. Do not store in colorless glass containers or other containers that transmit UV light. Do not pad containers or pressurized vessels using nitrogen. Use of nitrogen may cause premature gelling. Avoid sunlight and other sources of UV Light. Store at ambient temperatures less than 75° F/24°C.

SOLUTION PROPERTIES

| PROPERTY | TYPICAL VALUES |
|------------------|----------------|
| % Solids | 3% |
| Viscosity @ 25°C | 1.2 - 1.3 cP |

CURED COATING PROPERTIES

| PROPERTY | TYPICAL VALUES |
|----------------------------------|----------------|
| Coating Thickness | .03 – .06µm |
| Adhesion (30 Min. Boiling Water) | 100 % |

RECOMMENDED OPERATING GUIDELINES

| PROCESS | TYPICAL VALUES |
|-------------------------|--|
| Wash | Wash in soap and water No etching required. |
| Application Spin Speed* | 600 rpm for 5 seconds |
| Spin Out Speed | 1800 rpm for 20 seconds |
| Cure | 10-15 feet per minute with Fusion F300 H+bulb (0.30-0.40 joules/cm2) |

*Spin speeds and times can vary depending on equipment utilized. These parameters are meant as a guideline. UV P-201C can also be applied by spray or flow coating.



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EQUIPMENT PREPARATION

Equipment Cleaning: Coating equipment should be cleaned prior to use of UV P-201C in order to avoid any possible contamination problems. The cleaning process should include multiple solvent rinses (utilizing a solvent compatible with the material in prior use with the equipment) followed by a thorough rinse with acetone or 1-Methoxy-2-propanol (PM). Acetone or PM should also be used for cleaning equipment after the use of UV P-201C. It is important to be sure all solvent has been completely removed/dried from coating bowl, tubing, and pump before adding primer.

Equipment Materials: All equipment surfaces that are exposed to UV P-201C should be constructed of stainless steel, polypropylene or Teflon®. Other materials should be tested for compatibility with UV P-201C prior to use. Materials made with polyvinyl chloride (PVC) should not be used under any circumstances.

APPLICATION ENVIRONMENT

UV P-201C should be applied in a clean temperature and humidity controlled environment. Recommended conditions for application are 20 – 25°C (68 - 77°F) and 30 – 60% relative humidity. Coating machine should be equipped with hepa air filter. It is recommended to place coating machine in a clean environment and in a separate area from potential contamination sources.

PARTS CLEANING

Parts to be primed with UV P-201C should first be cleaned isopropanol, then cleaned by inline cleaning system in the coating machine being used. Parts should be clean and dry before application of UV P-201C.

HEALTH & SAFETY INFORMATION

Before using this product, read and understand the Safety Data Sheet, SDS, which provides information on health, physical, and environmental hazards, handling precautions and first aid recommendations. For a copy of an SDS, contact a sales or customer service representative.

WARRANTY & LIABILITY LIMITATIONS

Information contained herein is accurate to the best of our knowledge. The primer solution properties and cured coating properties listed herein represent typical values for UV P-201C and are not meant as specifications. SDC Technologies, Inc. insists that users conduct their own tests for applicability and fitness for any purpose. Statements concerning use of products or formulations described herein shall not be construed as a warranty or license to infringe any patent or trademark, and no liability for infringement arising out of such use is assumed. Please refer to SDC Technologies Standard Terms and Conditions or to your Purchase Agreement with SDC for the warranty coverage of SDC's product.

PRODUCT SHIPPING & AVAILABILITY

Typical lead-time for shipment of UV P-201C is four (4) weeks from confirmation of a purchase order. SDC provides several shipping options. Please contact an SDC representative to determine which option best fits your needs. All orders are shipped ex works/F.O.B. Additional shipment charges including customs clearance and fees (if applicable) are the responsibility of the customer.

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