Technical Data Sheet

CrystalCoat™ UV G-T130

UV-Cure Tintable Spin Coating

DESCRIPTION

CrystalCoat™ UV G-T130 is a UV curable, tintable hard coat for ophthalmic lenses or other plastic parts.

FEATURES

- 100% Solids (Solvent-Free)
- Abrasion and Chemical resistant
- Designed for Polycarbonate, ADC (CR-39®, RAV 7®), Trivex®, Mid-Index Acrylic, 1.60 (MR-8™) , 1.67 (MR-7™, MR-10™), and 1.74 (MR-174™
- Tintable
- AR compatible
- Spin Coat Application

STORAGE AND HANDLING

Store UV G-T130 in closed, properly labeled 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. The recommended storage temperature for UV G-T130 is 4°C. When stored at this temperature in the original closed container, it is recommended to use UV G-T130 within 6 months from date of manufacture.

SOLUTION PROPERTIES

PROPERTY	TYPICAL VALUES
% Solids	100%
Viscosity @ 25°C	35 - 48 cP

CURED COATING PROPERTIES

PROPERTY	TYPICAL VALUES
Coating Thickness	5 - 7 µm
Steel Wool Hardness	4 (0-10 scale)
Bayer Ratio	1.0 - 2.5
Adhesion (15 Min. Boiling Water)	100%

RECOMMENDED OPERATING GUIDELINES* - G3 Machine

PROCESS	TYPICAL VALUES
Wash	Soap and water. No etching required
Application Spin On Speed	487 rpm for 4 seconds
Spin-Off Speed	2000 rpm for 17 seconds
Cure (in G3)	17 seconds (2.3 – 2.6 joules/cm2)
Coating Filtration	5.0 µm absolute

* Spin speeds and times can vary depending on equipment utilized. UV cure energy of lamp systems may vary. These parameters are meant as a guideline. UV cure energy is as measured with Quantum Technologies Quant 300S radiometer.

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CrystalCoat™ is a trademark of SDC Technologies.

CR-39® and Trivex® are registered trademarks of PPG.

MR-Series: MR-8™, MR-7™, MR-10™ & MR-174™ are trademarks , RAV 7 ® is a registered trademark of Mitsui Chemicals, Inc.

Teflon® is a registered trademark of The Chemours Company FC, LLC.

EQUIPMENT PREPARATION

Equipment Cleaning: Coating equipment should be cleaned prior to use of UV G-T130 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 1-Methoxy-2-propanol (PM) and then acetone. 1-Methoxy-2-propanol followed by acetone should also be used for cleaning equipment after the use of UV G-T130. It is important to be sure all solvent has been completely removed/dried from coating bowl, tubing, and pump before adding coating.

Equipment Materials: All equipment surfaces that are exposed to UV G-T130 should be constructed of stainless steel, polypropylene or Teflon®. Other materials should be tested for compatibility with UV G-T130 prior to use. Materials made with polyvinyl chloride (PVC) should not be used under any circumstances.

APPLICATION ENVIRONMENT

UV G-T130 should be applied in a temperature and humidity controlled environment. Recommended conditions for application are 20 – 25°C (68 - 77°F) and 20 – 55% relative humidity. Coating machine should be equipped with hepa air filter. It is recommended to place coating machine in a clean environment and in separate area from potential contamination sources.

LENS CLEANING

Lenses to be coated with UV G-T130 should first be cleaned with isopropanol, then cleaned by inline cleaning system in the coating machine being used. Lenses should be clean and dry before application of UV G-T130.

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 coating solution properties and cured coating properties listed herein represent typical values for UV G-T130 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 G-T130 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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