



## CrystalCoat® UV CC-6060

### Abrasion Resistant UV-Cure Coating

#### DESCRIPTION

CrystalCoat® UV CC-6060 is a UV Curable abrasion resistant coating that adheres to polycarbonate and polyamide (nylon). It is non-tintable designed for dip application.

#### FEATURES

- Abrasion Resistance
- Primer-free adhesion to polyamide and polycarbonate
- Compatible with anti-reflective and metalizing treatments
- Flexibility

#### STORAGE AND USE

Recommended storage temperature for UV CC-6060 is 4°C (40°F). When stored at this temperature it is recommended to use UV CC-6060 within three (3) months of the date received.

For extended periods (3-6 months) of storage UV CC-6060 should be stored at -18°C (0°F)

#### SOLUTION PROPERTIES

PROPERTY	TYPICAL VALUES
Solids	30.0 - 34.0 %
Viscosity @ 25°C	≤ 10 cP
Density @ 25°C	0.970 - 1.050 g/mL
Solvents: PM Glycol Ether, Isopropanol, EP Glycol Ether, Butyl Acetate, Ethanol, and Water	

#### CURED COATING PROPERTIES

PROPERTY	TYPICAL VALUES
Coating Thickness	3.5 - 6.0 µm
Refractive Index	1.49
Adhesion	100 %
Bayer Ratio (on polycarbonate lens)	≥ 1.5

#### RECOMMENDED OPERATING GUIDELINES

PROPERTY	TYPICAL VALUES
Environmental Conditions	20 - 25°C, 35 - 50% RH
Air Flow	Filtered, Laminar (Class 100)
Coating Temperature	16 - 18°C
Coating Filtration	1 - 5 µm absolute
Extraction Speed	1.7 - 4.2 mm/s (4 - 10 in/min)
Dry Time	5 - 10 mins air dry
Cure Conditions—w/Fusion H or H+ bulb, or medium pressure mercury arc lamp @ 400 W/in	PC: 1.2 J/cm <sup>2</sup> PA: 2.0 J/cm <sup>2</sup> (as measured by EIT UV Power Puck)



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## SDC TECHNOLOGIES CONTACT INFORMATION

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## EQUIPMENT PREPARATION

**Equipment Cleaning:** Coating equipment should be cleaned prior to use of UV CC-6060 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 PM Glycol Ether rinse. PM Glycol Ether should also be used for cleaning equipment after the use of UV CC-6060.

**Equipment Materials:** All equipment surfaces that are exposed to UV CC-6060 should be constructed of stainless steel, polypropylene or Teflon®. Other materials should be tested for compatibility with UV CC-6060 prior to use. Materials made with polyvinyl chloride (PVC) should not be used under any circumstances with UV CC-6060 or other primers or coatings that contain glycol ethers.

## PRETREATMENT AND CLEANING OF SUBSTRATE

Prior to coating with UV CC-6060, parts should be clean and free of any surface residues. UV CC-6060 does not require a primer to adhere to polycarbonate or polyamide.

## SOLUTION MANAGEMENT

For optimum performance, UV CC-6060 should be maintained in a solids range of 30 - 34%. Higher or lower solids may cause appearance problems or lead to a coating deposition that is either too thick or too thin, respectively. The % solids should be measured on a regular basis and adjusted as needed by the addition of SM-815 - 75/15/10 mixture of isopropanol, n-butyl acetate, and PM glycol ether.

## HEALTH AND 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 AND 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 CC-6060 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 AND AVAILABILITY

Typical lead-time for shipment of UV CC-6060 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.