



Technical Data Sheet

CrystalCoat® CC-6000

Weatherable Abrasion Resistant Coating

DESCRIPTION

CrystalCoat® CC-6000 is a weatherable abrasion resistant hardcoat designed for flow application.

FEATURES

- Abrasion resistance
- Weatherability
- Optical clarity
- Requires compatible primer for use on polycarbonate e.g. PR-660B
- Compatible with many anti-reflective and metalizing treatments

STORAGE AND USE

The recommended storage temperature for CC-6000 is 4°C. When stored at this temperature in the original closed container, it is recommended to start to use CC-6000 within three (3) months of the date received.

For extended periods (3-6 months) of storage CC-6000 should be stored at -18°C (0°F).

SOLUTION PROPERTIES

PROPERTY	TYPICAL VALUES
Solids	20 - 22 %
Viscosity @ 25°C	≤10 cP
Density @ 25°C	0.980 - 0.990 g/mL
Solvents: EP Glycol Ether, Methanol, Isopropanol, Butanol, Water	

CURED COATING PROPERTIES

PROPERTY	TYPICAL VALUES
Coating Thickness	2.0 - 12.0 µm
Refractive Index	1.43
Taber Abrasion Δ Haze @ 100 revolutions Δ Haze @ 500 revolutions	≤ 2.0 % ≤ 10.0 %

RECOMMENDED OPERATING GUIDELINES

PROPERTY	TYPICAL VALUES
Environmental Conditions	20 - 25°C, 35 - 45% RH
Air Flow	Filtered, Laminar (Class 100)
Coating Temperature	18 - 21°C
Coating Filtration	1 - 10 µm absolute
Dry Time	< 30 min @ 20 - 23°C
Cure Conditions	1.5 hrs @ 129°C



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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 CC-6000 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 isopropanol rinse. Isopropanol should also be used for cleaning equipment after the use of CC-6000.

Equipment Materials: All equipment surfaces that are exposed to CC-6000 should be constructed of stainless steel, polypropylene or Teflon®. Other materials should be tested for compatibility with CC-6000 prior to use. Materials made with polyvinyl chloride (PVC) should not be used under any circumstances with CC-6000 or other primers or coatings that contain glycol ethers.

PRETREATMENT AND CLEANING OF SUBSTRATE

Prior to coating with CC-6000, parts should be clean and free of any surface residues. Substrate should be spot cleaned with isopropanol as needed and blown down with an anti-static air stream.

The application of CC-6000 on polycarbonate requires the use of a primer. PR-660B is the recommended primer for use with CC-6000. For information regarding application of CC-6000 to other substrates, please contact SDC.

SOLUTION MANAGEMENT

For optimum performance, CC-6000 should be maintained in a solids range of 20 - 22%. 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 an 85/15 mixture of isopropanol and n-butanol.

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 CC-6000 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 CC-6000 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.