OPACI-COAT-300®
by ICD High Performance Coatings

CLASSIFICATION: 08 81 00 Spandrel Glazing

PRODUCT DESCRIPTION: OPACI-COAT-300® has been used on spandrel and wall cladding glass on thousands of buildings worldwide – including some of the world’s prominent commercial projects. Using OPACI-COAT-300® allows architects and designers to access an unlimited color palette – with one of the strictest color tolerances – to create a “stand-out” project or work toward a harmonious appearance from vision glass to spandrel glass. Architects, designers and façade consultants can count on the material to not reduce the strength of heat strengthened glass, and when specified, provide glass fallout resistance. “OPACI-COAT-300®” is the trade name for a patented one component, water-based silicone coating that is fully cured to a tack-free silicone elastomeric film, providing opacification in any color to glass and related construction materials. This HPD covers OPACI-COAT-300® as applied to glass and fully cured.

Section 1: Summary

CONTENT IN DESCENDING ORDER OF QUANTITY
Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE


VOLATILE ORGANIC COMPOUND (VOC) CONTENT
VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE
See Section 3 for additional listings.

CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?
Yes
No

PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2017-11-27
PUBLISHED DATE: 2017-11-27
EXPIRY DATE: 2020-11-27

OPACI-COAT-300
hdprepository.hpd-collaborative.org
HPD v2.1 created via HPDC Builder Page 1 of 6
## Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold.
- Nested Material Inventory method with individual Material-level thresholds.

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-standard](http://www.hpd-collaborative.org/hpd-2-1-standard)

### OPACI-COAT-300® WATER-BASED SILICONE SPANDREL

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** No residuals or impurities are known or expected to be present at or above the Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS, based on direct testing (FTIR and GC/MS), supplier SDS, and as predicted by process chemistry (Pharos CML).

**OTHER PRODUCT NOTES:** Percent by weight of substances reported as ranges to account for possible differences in glass type selected, and for the numerous colors of OPACI-COAT-300 available for specification.

#### SOLID / PLATE GLASS

<table>
<thead>
<tr>
<th>%: 98.6000 - 99.1000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Transparent Structural Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Substrate to which OPACI-COAT-300 water-based silicone coating is applied. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). No residuals or impurities from this substance are known or expected to be present in this product at or above the inventory threshold indicated, as predicted by process chemistry (Pharos CML). Specific guidelines are being created by the HPD Collaborative to address known issues related to transparency and disclosure for several materials (“Special Conditions”) including Float Glass. This HPD will be updated as appropriate when these guidelines become available.

#### SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED (SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED)

<table>
<thead>
<tr>
<th>%: 0.4000 - 0.6000</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Opacification Coating for Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Identified on the US EPA Safer Chemical Ingredient List. Crosslinked Polydimethylsiloxane. Water-based silicone coating that is fully cured to a tack-free silicone elastomeric film providing opacification in any color to glass and related construction materials.

#### SILICA, AMORPHOUS

<table>
<thead>
<tr>
<th>%: 0.1000 - 0.2000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Reinforcing Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>Japan - GHS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Carcinogenicity - Category 1A**

---

OPACI-COAT-300  
hpdrepository.hpd-collaborative.org  
HPD v2.1 created via HPDC Builder Page 2 of 6
### Substance Notes

**Synonyms:** Diatomaceous earth; Silicon dioxide. Amorphous silica is the non-crystalline form of SiO2. Hazard not expected to apply once substance is bound in the matrix of the cured product.

### Ferric Oxide

<table>
<thead>
<tr>
<th>ID</th>
<th>1309-37-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>0.0000 - 0.0800</td>
</tr>
<tr>
<td>GS</td>
<td>BM-2</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>NANO</td>
<td>No</td>
</tr>
<tr>
<td>ROLE</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**Hazard:**

- **CANCER**
  - MAK
  - Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

### Nickel Rutile Yellow

<table>
<thead>
<tr>
<th>ID</th>
<th>8007-18-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>0.0000 - 0.0800</td>
</tr>
<tr>
<td>GS</td>
<td>LT-1</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>NANO</td>
<td>No</td>
</tr>
<tr>
<td>ROLE</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**Hazard:**

- **CANCER**
  - IARC
    - Group 1 - Agent is Carcinogenic to humans
  - CA EPA - Prop 65
    - Carcinogen
  - US CDC - Occupational Carcinogens
    - Occupational Carcinogen
  - AOEC - Asthmagens
    - Asthmagen (ARs) - sensitizer-induced - inhalable forms only
  - MAK
    - Carcinogen Group 1 - Substances that cause cancer in man
  - MAK
    - Sensitizing Substance Sah - Danger of airway & skin sensitization

### C.I. Pigment Green 50

<table>
<thead>
<tr>
<th>ID</th>
<th>68186-85-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>0.0000 - 0.0800</td>
</tr>
<tr>
<td>GS</td>
<td>LT-1</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>NANO</td>
<td>No</td>
</tr>
<tr>
<td>ROLE</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**Hazard:**

- **RESPIRATORY**
  - AOEC - Asthmagens
    - Asthmagen (G) - generally accepted
  - MAK
    - Group 1 - Agent is Carcinogenic to humans
  - CA EPA - Prop 65
    - Carcinogen
  - US CDC - Occupational Carcinogens
    - Occupational Carcinogen
RESPIRATORY
AOEC - Asthmagens
Asthmagen (ARs) - sensitizer-induced - inhalable forms only

CANCER
MAK
Carcinogen Group 1 - Substances that cause cancer in man

CANCER
MAK
Carcinogen Group 2 - Considered to be carcinogenic for man

RESPIRATORY
MAK
Sensitizing Substance Sah - Danger of airway & skin sensitization

GENE MUTATION
MAK
Germ Cell Mutagen 3a

SUBSTANCE NOTES: This substance falls below the declared Inventory Threshold; however, we have chosen to disclose this substance in an effort to provide more transparency for this product. Hazards not expected to apply once substance is bound in the matrix of the cured product. Substance not present in all colors; contact manufacturer for more information.

C.I. PIGMENT YELLOW 227
ID: 1374645-21-2

%: 0.0000 - 0.0800
GS: NoGS
RC: None
NANO: No
ROLE: Pigment

HAZARDS:
AGENCY(IES) WITH WARNINGS:
None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance falls below the declared Inventory Threshold; however, we have chosen to disclose this substance in an effort to provide more transparency for this product. Substance not present in all colors; contact manufacturer for more information.

TITANIUM DIOXIDE
ID: 13463-67-7

%: 0.0000 - 0.0800
GS: LT-1
RC: None
NANO: No
ROLE: Pigment

HAZARDS:
AGENCY(IES) WITH WARNINGS:
CANCER
US CDC - Occupational Carcinogens
Occupational Carcinogen
CANCER
CA EPA - Prop 65
Carcinogen - specific to chemical form or exposure route
CANCER
IARC
Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor
CANCER
MAK
Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List. Hazards not expected to apply when substance is bound in the matrix of the cured product. The Material Health Harmonization Task Group convened by the USGBC states that pigmentary titanium dioxide was "determined to be Benchmark 2 using the full GS (GreenScreen) method" (http://ow.ly/Z5ken). This substance falls below the declared Inventory Threshold; however, we have chosen to disclose this substance in an effort to provide more transparency for this product. Substance not present in all colors; contact manufacturer for more information.

C.I. PIGMENT YELLOW 216
ID: 85536-73-8

%: 0.0000 - 0.0800
GS: NoGS
RC: None
NANO: No
ROLE: Pigment

HAZARDS:
AGENCY(IES) WITH WARNINGS:

SUBSTANCE NOTES: This substance falls below the declared Inventory Threshold; however, we have chosen to disclose this substance in an effort to provide more transparency for this product. Substance not present in all colors; contact manufacturer for more information.
SUBSTANCE NOTES: This substance falls below the declared Inventory Threshold; however, we have chosen to disclose this substance in an effort to provide more transparency for this product. Substance not present in all colors; contact manufacturer for more information.

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Self-declared</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>Ridgefield, WA USA</td>
</tr>
</tbody>
</table>

CDPH Standard Method V1.2

| ISSUE DATE: | 2017-09-01 |
| EXPIRY DATE: | |
| CERTIFIER OR LAB: | Berkeley Analytical |


Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

ICD values sustainability, responsibility, quality and innovation. Our purpose is to make healthier living and work spaces through chemistry.

Section 6: References

MANUFACTURER INFORMATION

| MANUFACTURER: | ICD High Performance Coatings |
| ADDRESS: | 7350 S Union Ridge Parkway |
| CONTACT NAME: | Chris Fronsoe |
| TITLE: | Global Sales Manager |

OPACI-COAT-300
hpdrepository.hpd-collaborative.org
HPD v2.1 created via HPDC Builder Page 5 of 6
The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD
and for compliance with the HPD standard noted.