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UV curable paint used for plastics

PHOLUCID

Plastic coat

Water-repellent

Hydrophilic

Anti-stain

Hard Coat
Anti-fingerprint
Anti-glare
UV-cut
Tack-free
Self-healing

Film coat

CHUGOKU MARINE PAINTS, LTD.
“PHOLUCID” opens the door for the future development of plastic

Superquick curing property of UV (ultraviolet) curable paint will add to plastic materials, versatile applications, greater protection, and higher functionality. This new paint inscribed with “PHOLUCID” opens the door for the future development of plastic materials and UV curable paints.

1. **Superquick curing (at the second rate)**
   - Curing starts immediately after light irradiation (UV)

2. **High productivity**
   - Superquick curing property allows speeding up of the production line

3. **Compact-sized facility**
   - No need of large-sized drying oven, and only need of a compact-sized facility provided with a special design for a narrow space

4. **High hardness (hard coat)**
   - Prevents scratches on the material and improves durability

5. **Versatile functionality**
   - Various types of functionality can be given to coating film depending on different needs

6. **Fit for different types of materials**
   - This paint can be applied to a variety of materials including ABS, PET, PC, etc.

Our UV cured paint lineup well known as “Aulex” since its introduction into the market, especially in the field of wood materials, gave birth to this new paint “PHOLUCID,” used exclusively for plastics-related field.
In addition to being easy to form and handle, plastics are lightweight and have increasing applications in various industrial products, such as electric appliances, automotive interior / exterior, and building materials.

Plastics also have weakness of being fragile and easily mechanically damaged though, a wider range of applications and further improved quality of plastic made products can be expected if such weakness is solved by the use of coating.

Also, if various functionalities are given to the surface of plastics, including anti-glaring (defogging), water repelling (water shedding), anti-stain (prevention of fouling on the surface), etc., it can not only enhance the level of product’s features but also create more new products with notable features.

Our company has been recognized as a “UV cure paint” pioneer and has many reliable records in the field of wooden building materials. While strengthening mutual relationships with other people in the building materials field, we have been acquiring unique know-how in safety and design. Applications of such know-how to plastic materials gave birth to the “PHOLUCID.”

New functionality, durability, and design: all of which are provided by plastic coating. We expect and hope that “PHOLUCID” can help improve the quality and potential of industrial products, leading to a bright and prosperous future for our life.

Our product’s design approach always depends on the individual material and coating line type. Therefore, we can adjust any function of our product to the desired level. In addition, other types of products than UV curable paint are available to you. So please feel free to contact us for any other questions.
Formed product coatings

**Hard Coat**

**PHOLUCID No.150C**
- High Hardness
  - This product provides scratch-resistant, high hardness property.

**PHOLUCID No.170C**
- High Hardness
  - Inorganic hard coat with excellent durability. This product provides scratch-resistant, high hardness property.

**PHOLUCID No.190C**
- Waterborne-type
  - This earth-conscious, waterborne-type coat has been developed with “safety and health” aspects in mind.

**PHOLUCID No.200C** (for ABS)
- Undercoat to enhance the adhesion of vacuum deposited films.

**PHOLUCID No.210C** (for PP)
- Undercoat for Vacuum Deposition

**PHOLUCID No.230C**
- Vacuum Deposition
  - Topcoat to maintain the design of aluminum deposited films.

**PHOLUCID No.160C**
- For Outdoor Use
  - Clear coat with high weatherability, designed for outdoor applications.

**PHOLUCID No.140C** series
- Water contact angle: 30° or smaller
  - Less fogging for vapor. This product is intended to be used for products requiring clear vision and in other various fields.

**PHOLUCID No.120C** series
- Water contact angle: 100° or greater
  - High water repellency and anti-stain.

**PHOLUCID No.125C**
- Super Hydrophobic Coat
  - Oleic acid contact angle: 10° or smaller
  - Blending well with oil on the coated surface can make fingerprint smudges less noticeable.

**PHOLUCID No.130C**
- Anti-finger Paint Coating
  - Beautiful texture
  - This clear coat can provide excellent design and soft texture to the surface of plastics.

**PHOLUCID No.125M**
- Anti-fingerprint Clear Hard Coat
  - High water repellency and anti-fingerprint. This product can be applied to multiple uses in various aquaphobic fields.

**PHOLUCID No.130M**
- Hydrophilic (anti-fogging) Coat
  - Ability to remove smudges of permanent marker and oil smudges.

**PHOLUCID No.140C**
- Hydrophilic coating film realizes the compatibility between transparency and high AG performance. This product can be applied to multiple uses for various plastic products.

**PHOLUCID No.120C** (for Formed products)
- Anti-glare (mat) Hard Coat
  - Anti-dazzling, mat specification hard coat.

**PHOLUCID No.125M** (for Formed products)
- Anti-blocking Hard Coat
  - Adjustable in haze and surface appearance.

**PHOLUCID No.140C** (for Film)
- Inorganic-type
  - Made for the specific use.

**PHOLUCID No.240C**
- High Physical Property and High Hardness
  - Hard coat providing excellent durability. With the help of its high hardness property, this product can reduce the occurrence of scratches.

**PHOLUCID No.330M**
- Anti-stain Hard Coat
  - Clear coat capable of cutting ultraviolet (UV).

**PHOLUCID No.360C, 370C** series
- Self-healing Coat
  - Scratches are gone in seconds.
  - Clear coat with revolutionary surface features that allow for self-repairing fine scratches.

**PHOLUCID No.420C**
- Soft Touch Coat
  - Beautiful texture
  - This clear coat serves as a base for the coating for molded articles.

**PHOLUCID No.430M** series
- For Outdoor Use
  - Clear coat with high weatherability, designed for outdoor applications.

**PHOLUCID No.440C**
- UV Cut Hard Coat
  - Correct adjustment of refractive index can be made for this “standard clear coat” application. The clear coat serves as a base for the coating for molded articles.

**PHOLUCID No.460C** series
- High Hydrophilicity and Anti-stain
  - Water contact angle: 10° or smaller

**PHOLUCID No.470C** series
- Anti-stain
  - High hardness property.

**PHOLUCID No.480C** series
- Super Hydrophobic Coat
  - Oleic acid contact angle: 10° or smaller
  - Blending well with oil on the coated surface can make fingerprint smudges less noticeable.

**PHOLUCID No.550C** series
- Self-healing Coat
  - Scratches are gone in seconds.

**PHOLUCID No.600C** series
- Hydrophilic (anti-fogging) Coat
  - Ability to remove smudges of permanent marker and oil smudges.

**PHOLUCID No.610C** series
- Anti-stain Hard Coat
  - Clear coat capable of cutting ultraviolet (UV).

**PHOLUCID No.620C** series
- Soft Touch Coat
  - Beautiful texture
  - This clear coat can provide excellent design and soft texture to the surface of plastics.

**PHOLUCID No.630C** series
- Anti-glare (mat) Hard Coat
  - Anti-dazzling, mat specification hard coat.

**PHOLUCID No.640C** series
- Anti-blocking Hard Coat
  - Adjustable in haze and surface appearance.

**PHOLUCID No.650C** series
- High Physical Property and High Hardness
  - Hard coat providing excellent durability. With the help of its high hardness property, this product can reduce the occurrence of scratches.

**PHOLUCID No.660C** series
- Anti-stain Hard Coat
  - Clear coat capable of cutting ultraviolet (UV).

**PHOLUCID No.670C** series
- Self-healing Coat
  - Scratches are gone in seconds.
  - Clear coat with revolutionary surface features that allow for self-repairing fine scratches.

**PHOLUCID No.680C** series
- Hydrophilic (anti-fogging) Coat
  - Ability to remove smudges of permanent marker and oil smudges.

**PHOLUCID No.690C** series
- Soft Touch Coat
  - Beautiful texture
  - This clear coat can provide excellent design and soft texture to the surface of plastics.

**PHOLUCID No.700C** series
- Anti-glare (mat) Hard Coat
  - Anti-dazzling, mat specification hard coat.

**PHOLUCID No.710C** series
- Anti-blocking Hard Coat
  - Adjustable in haze and surface appearance.

**PHOLUCID No.720C** series
- High Physical Property and High Hardness
  - Hard coat providing excellent durability. With the help of its high hardness property, this product can reduce the occurrence of scratches.

**PHOLUCID No.730C** series
- Anti-stain Hard Coat
  - Clear coat capable of cutting ultraviolet (UV).

**PHOLUCID No.740C** series
- Self-healing Coat
  - Scratches are gone in seconds.

**PHOLUCID No.750C** series
- Hydrophilic (anti-fogging) Coat
  - Ability to remove smudges of permanent marker and oil smudges.

**PHOLUCID No.760C** series
- Soft Touch Coat
  - Beautiful texture
  - This clear coat can provide excellent design and soft texture to the surface of plastics.

**PHOLUCID No.770C** series
- Anti-glare (mat) Hard Coat
  - Anti-dazzling, mat specification hard coat.

**PHOLUCID No.780C** series
- Anti-blocking Hard Coat
  - Adjustable in haze and surface appearance.

**PHOLUCID No.790C** series
- High Physical Property and High Hardness
  - Hard coat providing excellent durability. With the help of its high hardness property, this product can reduce the occurrence of scratches.

**PHOLUCID No.800C** series
- Anti-stain Hard Coat
  - Clear coat capable of cutting ultraviolet (UV).

**PHOLUCID No.810C** series
- Self-healing Coat
  - Scratches are gone in seconds.

**PHOLUCID No.820C** series
- Hydrophilic (anti-fogging) Coat
  - Ability to remove smudges of permanent marker and oil smudges.

**PHOLUCID No.830C** series
- Soft Touch Coat
  - Beautiful texture
  - This clear coat can provide excellent design and soft texture to the surface of plastics.

**PHOLUCID No.840C** series
- Anti-glare (mat) Hard Coat
  - Anti-dazzling, mat specification hard coat.

**PHOLUCID No.850C** series
- Anti-blocking Hard Coat
  - Adjustable in haze and surface appearance.

**PHOLUCID No.860C** series
- High Physical Property and High Hardness
  - Hard coat providing excellent durability. With the help of its high hardness property, this product can reduce the occurrence of scratches.

**PHOLUCID No.870C** series
- Anti-stain Hard Coat
  - Clear coat capable of cutting ultraviolet (UV).

**PHOLUCID No.880C** series
- Self-healing Coat
  - Scratches are gone in seconds.

**PHOLUCID No.890C** series
- Hydrophilic (anti-fogging) Coat
  - Ability to remove smudges of permanent marker and oil smudges.

**PHOLUCID No.900C** series
- Soft Touch Coat
  - Beautiful texture
  - This clear coat can provide excellent design and soft texture to the surface of plastics.

**PHOLUCID No.910C** series
- Anti-glare (mat) Hard Coat
  - Anti-dazzling, mat specification hard coat.

**PHOLUCID No.920C** series
- Anti-blocking Hard Coat
  - Adjustable in haze and surface appearance.

**PHOLUCID No.930C** series
- High Physical Property and High Hardness
  - Hard coat providing excellent durability. With the help of its high hardness property, this product can reduce the occurrence of scratches.

**PHOLUCID No.940C** series
- Anti-stain Hard Coat
  - Clear coat capable of cutting ultraviolet (UV).

**PHOLUCID No.950C** series
- Self-healing Coat
  - Scratches are gone in seconds.

**PHOLUCID No.960C** series
- Hydrophilic (anti-fogging) Coat
  - Ability to remove smudges of permanent marker and oil smudges.

**PHOLUCID No.970C** series
- Soft Touch Coat
  - Beautiful texture
  - This clear coat can provide excellent design and soft texture to the surface of plastics.

**PHOLUCID No.980C** series
- Anti-glare (mat) Hard Coat
  - Anti-dazzling, mat specification hard coat.

**PHOLUCID No.990C** series
- Anti-blocking Hard Coat
  - Adjustable in haze and surface appearance.

**PHOLUCID No.1000C** series
- High Physical Property and High Hardness
  - Hard coat providing excellent durability. With the help of its high hardness property, this product can reduce the occurrence of scratches.

**PHOLUCID No.1010C** series
- Anti-stain Hard Coat
  - Clear coat capable of cutting ultraviolet (UV).
**Film Coatings**

### Hard Coat

**PHOLUCID No.300C series**
- **PHOLUCID No.300C**
  - **General Product**
  - Various functions of "PHOLUCID" allow for this hard coat application. The hard coat serves as a base of coating for films.

**PHOLUCID No.500C series**
- **PHOLUCID No.500C**
  - **General Product**
  - Anti-blocking, mat specification hard coat.

### Anti-blocking Hard Coat

**PHOLUCID No.500C series**
- **PHOLUCID No.500C**
  - **General Product**
  - Hard coat to reduce the occurrence of defects induced by a roll-up process during coating.

### Thermoforming Coat

**PHOLUCID No.360C,370C series**
- **PHOLUCID No.360C,370C**
  - **General Product**
  - Capable of making a design for thermoforming. Tack-free. Clear coat available for In Mold Forming and/or Insert Mold Forming.

### High Refractive Index Coat

**PHOLUCID No.550C series**
- **PHOLUCID No.550C**
  - **General Product**
  - Correct adjustment of refractive index can be made for the specific use.

### Thermal Shrinkage-Resistant Hard Coat

**PHOLUCID No.480C series**
- **PHOLUCID No.480C**
  - **General Product**
  - Thermal shrinkage resistance. Reduced thermal dimensional change and suitable even for heating in a post-processing stage.

### Self-healing Coat

**PHOLUCID No.520C series**
- **PHOLUCID No.520C**
  - **General Product**
  - Scratches are gone in seconds. Clear coat with revolutionary surface features that allow for self-healing fine scratches.

### UV Cut Hard Coat

**PHOLUCID No.460C series**
- **PHOLUCID No.460C**
  - **General Product**
  - Light resistance and weatherability. Clear coat capable of cutting ultraviolet (UV). Application of this hard coat enhances light resistance and weatherability.

### Anti-glare (mat) Hard Coat

**PHOLUCID No.330M series**
- **PHOLUCID No.330M**
  - **General Product**
  - Adjustable in haze and surface appearance. Anti-dazzling, mat specification hard coat.

### Anti-static Clear Hard Coat

**PHOLUCID No.400C series**
- **PHOLUCID No.400C**
  - **General Product**
  - Surface resistance value: 1.0 × 10^7 - 11
  - Hard coat capable of preventing electrostatic charges and dust accumulation.

### Anti-fingerprint Clear Hard Coat

**PHOLUCID No.420C series**
- **PHOLUCID No.420C**
  - **General Product**
  - Anti-fingerprint property. These products can make fingerprint smudge less noticeable. Even if fingerprints are left on the surface, such fingerprint smudge can be removed with an easy wipe.

### Anti-stain Hard Coat

**PHOLUCID No.421C, 427C**
- **PHOLUCID No.421C, 427C**
  - **General Product**
  - Ability to remove smudges of permanent marker and oil smudges. Accidental permanent marker and oil smudges are all gone with a wipe. A hard coat with excellent anti-stain property.

### Anti-fingerprint, Mat Hard Coat

**PHOLUCID No.430M series**
- **PHOLUCID No.430M**
  - **General Product**
  - Adjustable in haze and surface appearance. These products can make fingerprint smudge less noticeable. Even if fingerprints are left on the surface, such fingerprint smudge can be removed with an easy wipe.

### Hydrophilic (anti-fogging) Coat

**PHOLUCID No.440C**
- **PHOLUCID No.440C**
  - **General Product**
  - Water contact angle: 10° or smaller
  - Less fogging for vapor. This product is suitable for products requiring clear vision and in other various fields.

### Self-healing Function

**PHOLUCID No.110C (for Formed products)**
**PHOLUCID No.521C (for Film)**

Brushing with Brass Brush

1 second

Restored!

### Anti-fingerprint Function

**General Hard Coat**
**PHOLUCID No.420C**

Wiping Off

These products can make fingerprint smudge less noticeable. Even if fingerprints are left on the surface, such fingerprint smudge can be removed with an easy wipe. These lineups can be applied to uses for electric appliances and other various products.

**PHOLUCID No.123C (for Formed products)**
**PHOLUCID No.420C (for Film)**
**PHOLUCID No.430M (for Film)**
In addition to being easy to form and handle, plastics are lightweight and have increasing applications in various industrial products, such as electric appliances, automotive interior/exterior, and building materials. Plastics also have weakness of being fragile and easily mechanically damaged though, a wider range of applications and further improved quality of plastic made products can be expected if such weakness is solved by the use of coating. Also, if various functionalities are given to the surface of plastics, including anti-glaring (defogging), water repelling (water shedding), anti-stain (prevention of fouling on the surface), etc., it can not only enhance the level of product’s features but also create more new products with notable features.

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Aims of Plastic Coating

Our product’s design approach always depends on the individual material and coating line type. Therefore, we can adjust any function of our product to the desired level. In addition, other types of products than UV curable paint are available to you. So please feel free to contact us for any other questions.

Website: http://www.cmp.co.jp

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* Prior to use, please read carefully this Technical Data Sheet, Material Safety Data Sheet (MSDS), and label on the package of our products.