DECO AND SPORT
We are the leader in decorative coatings, you get the benefits

Decobond™ Coatings for a Clean and Lasting Finish

Physical vapor deposition technology (PVD) has been used extensively for decorative purposes in numerous applications where superior adhesion, wear and scratch resistance are important to ensure a perfect look for an extended period of time and intense use.

Ionbond has developed the Decobond™ family of coatings with metallic appearance and properties that match these needs.

- High hardness
- Scratch and scuff resistance
- Wear resistance
- Chemically inert/non-tarnish
- Odorless
- Hypoallergenic

Color matching

Ionbond has an extensive range of standard colors across the spectrum of metallic finishes. However, corporate designs or designers taste may ask for special tones.

Whether it be a color seen from another technology such as electroplating/powder coating/anodizing or a slight shade or tone change from an existing PVD coating, Ionbond’s engineers are available to design a process to deliver the client a true bespoke finish.

- Custom colors
- Replicated colors
- Color uniformity
Unlimited Applications

Decobond™ PVD coatings have countless applications. Their unique hardness, wear resistance and metallic appearance make them the ideal treatment for heavily used surfaces, indoor and outdoor.

Architectural

Decobond™ PVD coatings offer a finish second to none on all manner of interior and exterior infrastructure fittings and design elements. The long lasting finishes withstand frequent tough use and keep a clean look. The color pallet compliments the most imaginative designer and architect.

- Kitchen and bathroom appliances
- Store interiors
- Signage
- Indoor and outdoor trim

Interior

Decobond™ coatings offer a bespoke look tailored to the needs of the designer. The coatings facilitate a long lasting, low maintenance, and easy-to-clean surface.

- Airplanes
- Yachts
- Retail stores

Automotive

The need to reduce the weight and cost of vehicles forces engineers to use plastic materials or light-metal alloys for interior and exterior trim. Decobond™ PVD coatings turn these light-weight parts into wear-resistant and genuinely metallic-looking design components that outlast a car’s life.

- Interior and exterior trim
Wear protection Built in

**Sport and leisure**

Ionbond’s Decobond™ serie of PVD coatings withstand the most challenging environmental conditions from the wet and salt at sea, mud and dirt in outdoor activities to the extreme hot and dry in the desert. Often they serve a double function and act as friction reduction or wear-protecting finishes to extend the lifetime of the gear.

- Golfing gear
- Boat fittings
- Knifes
- Sunglass frames
- Bike components
- Music instruments
- Firearms

**Substrate materials**

All electrically conductive materials are suitable for coating with Decobond™. Stainless steel and Titanium are coated without any pretreatments. Softer and oxidation-prone metals and plastics require an electroplating pretreatment with Ni and Cr to increase the surface hardness, act as a filler to aid surface finish and avoid corrosion.

- Stainless steel
- Titanium
- Aluminium
- Brass
- Zinc die cast
- ABS

**Quality assured**

Most Ionbond facilities offering Decobond™ are ISO 9001 certified. Some are serving the automotive or aerospace industries and hold TS16949/AS 9100 certification. This guarantees our customers receive a product of consistent quality across the Ionbond network of manufacturing sites.

- ISO 9001
- TS 16949
- AS 9100
- ISO 14000
Decobond™ PVD Coatings

Standard colors

<table>
<thead>
<tr>
<th>Grey</th>
<th>Black</th>
<th>Gold</th>
<th>Red</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel</td>
<td>Anthracite</td>
<td>Gold 24K</td>
<td>Copper Rose</td>
<td>Flat Dark Earth</td>
</tr>
<tr>
<td>Nickel</td>
<td>Black</td>
<td>Gold 18K</td>
<td>Bronze</td>
<td>Sand</td>
</tr>
<tr>
<td>Smoked Grey</td>
<td>Black</td>
<td>French Gold</td>
<td>Brass</td>
<td>Rainbow</td>
</tr>
</tbody>
</table>

General performance specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness</td>
<td>1500–2800 HV</td>
</tr>
<tr>
<td>Coating thickness</td>
<td>0.2–0.5μ (thicker coatings on request)</td>
</tr>
<tr>
<td>Appearance</td>
<td>Metallic colors, odorless</td>
</tr>
<tr>
<td>Adhesion strength</td>
<td>Good adhesion on stainless steel and on electroplated chrome surfaces</td>
</tr>
<tr>
<td>Wear resistance</td>
<td>Improved wear resistance as a result of the high hardness</td>
</tr>
<tr>
<td>Coating temperature</td>
<td>20–200 °C, depending on substrate</td>
</tr>
<tr>
<td>Dimensions</td>
<td>max. 1500 mm length (exception 1850 mm)</td>
</tr>
<tr>
<td></td>
<td>max. 900 mm diameter (exception 1600 mm)</td>
</tr>
</tbody>
</table>

For a complete coating listing please see www.ionbond.com
Competence and Innovation – Worldwide

Ionbond is a leader in surface enhancement technology and provides advanced coating solutions featuring a broad range of hard, low friction, wear resistant coatings based on PVD, PACVD and CVD technologies for a wide range of applications. It has a global presence with coating centers in strategic locations across Europe, Asia, and North America and has one of the largest coating networks in the world.

Ionbond is part of the IHI Group, a Japanese industrial group with significant R&D resources that operates through multiple business fields including: Energy and Resources, Social Infrastructure, Industrial Machinery and Aero Engines.

See our website for a full list of all coating centers and local equipment sales offices. www.ionbond.com