Decorative Powder Coating
Introducing Decorative Power Coating by Decoral
Architects, builders, manufacturers & custom coaters all over the world are discovering the remarkable advantages of decorative coatings by Decoral System. Our sophisticated wood grain powder coating process applies decorative finishing deep into coated aluminum, steel, iron, glass, ceramic, plastic & other surfaces for windows, doors, blinds, fixtures furnishings, & virtually any other product where aesthetic appeal, durability & fire retardant advantages enhance its value. Decoral System powder coatings are available in an endless variety of patterns, colors, & textures.

With the Decoral process, aluminum & other materials can be designed to accurately resemble authentic wood grain, marble & stone finishes, plus floral patterns, animal prints, & even custom logo graphics. Offering long-lived protection and many other benefits, Decoral coatings are the ideal specification choice for architects & designers worldwide. With hundreds of durable finishes, Decoral offers an added-value advantage that will increase finishing options, as well as market share for manufacturers & custom coaters alike.

In 2004, The VIV Group introduced Decoral System USA Corp. to the United States. A leader in the production and distribution of powder coating finishes for the past 30 years, The VIV Group boasts more than 500 employees worldwide. Starting from its primary manufacturing facility in Verona, Italy, the company has grown to include more than 600 plants & distributors in over 60 countries. Over the years, Decoral has produced thousands of tons of decorated aluminum for diverse applications.

Decoral offers turn key plants with training, marketing tools, R&D and know-how with the necessary raw materials (powder coating and transfer films). Additionally, Decoral provides its decorative powder coating service through its network of Decoral licensed applicators worldwide.
ADVANTAGES of DECORAL vs REAL WOOD

High UV resistance; Water and humidity proof; Fire retardant; High corrosion resistance; No maintenance required; High scratch resistance; Does not swell, rot or warp; Less costly than wood; Metal is easier to fabricate; Termite and insect proof.

DISADVANTAGES of REAL WOOD

Poor UV durability; Very sensitive to humidity; High flammability; Needs regular maintenance; Easy to scratch; Easily swells, rots and warps; More costly than metal; Difficult to fabricate; Vulnerable to termites and insects.
DECORAL
VS
FOIL LAMINATION

- Decoral is UV resistant and water/humidity proof.
- Decoral is less expensive.
- Decoral will not delaminate.
- Decoral is easier to manufacture.
- Decoral machine requires less space.
- Decoral process is automated.
- Decoral offers a huge variety of patterns.
- Decoral raw materials are eco-friendly (recyclable).
- Decoral is fire retardant and anti-graffiti.
- Decoral can be applied on most 3D metal shapes.

- Lamination is susceptible to UV & water/humidity.
- Lamination is more expensive.
- Lamination can separate easily.
- Lamination is difficult to manufacture.
- Lamination machinery requires many adjustments.
- Lamination requires a lot of time/labor to apply.
- Lamination process has a lot of waste.
- Lamination uses toxic glues.
- Lamination uses films which are not recyclable.
- Lamination is not fire retardant.
- Lamination is not anti-graffiti.
- Lamination cannot be applied on 3D parts.
DECORAL is GREEN and SUSTAINABLE

Does not emit VOC's
Powders are TGIC free
Does not use harmful solvents
Avoids cutting trees
Uses recycled materials
Avoids digging marble mines
Does not pollute
Metal lasts longer than wood
Metal can be recycled
Acacia Fine Line

DS 403 + 1001/01 (Smooth)  DS 733 + 1001/01 (Textured)

Acacia

DS 403 + 1002/01 (Smooth)  DS 733 + 1002/01 (Textured)

Colony Maple

DS 402 + 1101/02 (Smooth)  DS 716 + 1101/02 (Textured)
American Maple

DS 403 + 1102/01 (Smooth)   DS 733 + 1102/01 (Textured)

Steamed Maple

DS 402 + 1103/01 (Smooth)   DS 716 + 1103/01 (Textured)

Chestnut

DS 403 + 1301/01 (Smooth)   DS 733 + 1301/01 (Textured)
Cherry Half Flame

DS 403 + 1407/01 (Smooth)  DS 733 + 1407/01 (Textured)

American Douglas

DS 402 + 1501/02 (Smooth)  DS 716 + 1501/02 (Textured)

Oregon Douglas

DS 402 + 1502/02 (Smooth)  DS 716 + 1502/02 (Textured)
<table>
<thead>
<tr>
<th>Wood Type</th>
<th>Surface Description 1</th>
<th>Surface Description 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table Beech</td>
<td>DS 402 + 1601/06 (Smooth)</td>
<td>DS 716 + 1601/06 (Textured)</td>
</tr>
<tr>
<td>Oriental Beech</td>
<td>DS 402 + 1602/01 (Smooth)</td>
<td>DS 716 + 1602/01 (Textured)</td>
</tr>
<tr>
<td>Steamed Beech</td>
<td>DS 402 + 1603/02 (Smooth)</td>
<td>DS 716 + 1603/02 (Textured)</td>
</tr>
</tbody>
</table>
Mahogany

DS 406 + 1701/01 (Smooth)  DS 706 + 1701/01 (Textured)

Mediterranean Walnut

DS 403 + 1801/02 (Smooth)  DS 733 + 1801/02 (Textured)

Dark Walnut

DS 403 + 1802/02 (Smooth)  DS 733 + 1802/02 (Textured)
California Nut

DS 403 + 1803/01 (Smooth)  DS 733 + 1803/01 (Textured)

Table Nut

DS 403 + 1804/05 (Smooth)  DS 733 + 1804/05 (Textured)

National Walnut

DS 403 + 1806/02 (Smooth)  DS 733 + 1806/02 (Textured)
National Walnut Flat

DS 403 + 1807/01 (Smooth)  DS 733 + 1807/01 (Textured)

Table Ontario

DS 402 + 1901/01 (Smooth)  DS 716 + 1901/01 (Textured)

Elm

DS 402 + 2001/01 (Smooth)  DS 716 + 2001/01 (Textured)
Scandinavian Knotty Pine

DS 402 + 2104/01 (Smooth)  DS 716 + 2104/01 (Textured)

Oak

DS 402 + 2301/02 (Smooth)  DS 716 + 2301/02 (Textured)

Burlwood

DS 403 + 2401/04 (Smooth)  DS 733 + 2401/04 (Textured)
Glossy Burlwood

PEC 411 + DS 810 + 2402/02 (Smooth Glossy)

Dark Oak

DS 403 + 2501/02 (Smooth)  DS 402 + 2501/05 (Smooth)  DS 716 + 2501/05 (Textured)

DS 733 + 2501/02 (Textured)
Golden Oak
DS 403 + 2505/01 (Smooth)  DS 733 + 2505/01 (Textured)

Striped Oak
DS 403 + 2506/01 (Smooth)  DS 733 + 2506/01 (Textured)

Bamboo
DS 402 + 2902/03 (Smooth)  DS 716 + 2902/03 (Textured)
PE 411+ DS 810 = SMOOTH GLOSSY
PE 411+ DS 407 = SMOOTH MATTE
PE 411+ DS 707 = TEXTURED
Carrara Marble

PE 411 + DS 810 + 5001/01 (Indoor)

PE 411 + DS 810 S + 5001/01 (Outdoor)

Davinci Marble

PE 411 + DS 810 + 5002/03 (Indoor)

PE 411 + DS 810 S + 5002/03 (Outdoor)

Grey Marble

PE 411 + DS 810 + 5004/05 (Indoor)

PE 411 + DS 810 S + 5004/05 (Outdoor)
Green Marble

Verona Marble

Granite
Red Granite

PE 411 + DS 810 + 5009/02  
(Indoor)

PE 411 + DS 810 S + 5009/02  
(Outdoor)

Brushed

PE 411 + DS 810 + 5007/01  
(Indoor)

PE 411 + DS 810 S + 5007/01  
(Outdoor)

Denim Jeans

PE 411 + DS 810 + 6006/13  
(Indoor)

PE 411 + DS 810 S + 6006/13  
(Outdoor)
**Bubbles**

PE 411 + DS 810 + 6007/01  
*(Indoor)*

PE 411 + DS 810 S + 6007/01  
*(Outdoor)*

**Water**

PE 411 + DS 810 + 6012/21  
*(Indoor)*

PE 411 + DS 810 S + 6012/21  
*(Outdoor)*

**Leopard**

PE 411 + DS 810 + 6009/01  
*(Indoor)*

PE 411 + DS 810 S + 6009/01  
*(Outdoor)*
Camouflage

PE 411 + DS 810 + 6010/55 (Indoor)

PE 411 + DS 810 S + 6010/55 (Outdoor)

Carbon Fiber

PE 411 + DS 810 + 6001/01 (Indoor)

PE 411 + DS 810 S + 6001/01 (Outdoor)

Mossy Oak

PE 411 + DS 810 + 6035/01 (Indoor)

PE 411 + DS 810 S + 6035/01 (Outdoor)
Applications
Licences & Certificates
The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extensions.

Director of the United States Patent and Trademark Office
### Coating Performance Test Report

**Coated System:** DECORAL SYSTEM ITALIA

**Product:** DS 440 (matte white) Wood Grain, Powder Coated Aluminum Paint

**Report No:** 53336.61-196-31
**Report Date:** 06/24/11
**Expiration Date:** 12/31/12

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### Licence Certificate

**Authorization to Use the Quality Mark**

**QualiDeco Dekoration Class 2**

**DECORAL SYSTEM**
Viale del Lavoro, 37040 Arcole (VR)

**Licence Number:** FS-001

**Date of Issue:** 22/02/1999
**Period of Validity:** until 31/12/2012

**Zurich, 24 January 2012**

QUALICOAT

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### RINA Certificate

**Product Verification (Module F)**
**Certificate No:** MED/D71147

- **Surveyor:** Enrico Forzatti
- **Type:** Surface materials and floor coverings with low flame-spread characteristics - (b) paint systems
- **Apply:** VIV DECORAL SPA
  - **Location:** Viale B.Lavorgna, 5
  - **City:** 37040 RICOLE (VR)
  - **Country:** ITALY
- **Module B Certificate Number:** MED/D71147
- **Date:** 19/05/2010

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### CATAS Test Report

**Abrasion Test UNI 9115/87**

**Sample:** Metall offence
**Results:**

<table>
<thead>
<tr>
<th>Property</th>
<th>RA</th>
<th>CA</th>
</tr>
</thead>
</table>
| 1        | 225| 2.5| Pass
| 2        | 225| 2.5| Pass
| 3        | 225| 2.7| Pass

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**Date of Issue:** 19/05/2010

Zurich, 24 January 2012

QUALICOAT
Brevetto per Invenzione industriale

Invenzione: U.S.A.
Inventore (Cadente): Lorenzo Bonatti
Brevetto n.: 7,303,581
Concesso il: 04/12/2007
Titolo: "Apparato e metódus per decorating objects"
Comanda n.: 10/392,991
Data di deposito: 16/07/2004
Priorità rivelata: 9405062/32187 del 17/07/2003

Prima Scaduta: 04/06/2011
* Veuillez prendre note de la date de faîte de la rivelazione. Il rivelatore si farà avviso a tempo della rivelazione di tale
Uso: Non rivelato