HELIOS WOOD COATINGS ARE DESIGNED FOR FINISHING WOOD ENSURING HIGH-QUALITY PROTECTION, WHILE EMPHASIZING THE BEAUTY OF WOOD.
THE EUROPEAN COATINGS GROUP

The Helios Group dates back to 1924 and today operates among the top ten coating companies in the European market. With 14 production sites, 145,000 m² production area and 30 own local sales forces, the Helios Group supplies over 15,000 customers in more than 60 countries worldwide.

CONTINUOUS DEVELOPMENT

R&D at the Helios Group is very strong and organized in one of the most modern R&D facilities on the international market. Laboratories are fully equipped with advanced technology and know-how is regularly transferred among experts at the highest level. We understand the importance of innovation in all areas of our work and constantly encourage research, education, and expertise to create an innovative working environment where Helios’ smart coatings are born.

RESPECTING THE ENVIRONMENT

The group strictly follows European and global legislation requiring the introduction of cleaner and environmentally friendly technologies. Whilst developing new advanced products, the group is committed to principles of sustainable development, such as minimizing energy consumption and the impact on the environment.
PRODUCT RANGE

INTERIOR FURNITURE AND JOINERY

STAINS AND PATINAS
- KOMBIHEL – Solvent-based
- EKOHEL – Water-based

LACQUERS AND ENAMELS
- HIDROHEL – Water-based
- HELIOCEL – Nitrocellulose
- HELIODUR – Polyurethane
- UVEHEL – UV-curing acrylic
- UVEHEL AQUA – UV-curing acrylic water-based

BIO PROGRAM
- BIO IMPREGNOL and BIOHEL
  - Oils and waxes

EXTERIOR JOINERY AND GARDEN FURNITURE

EXTERIOR STAINS AND IMPREGNATIONS
- AQUAVITA SYSTEM – Water-based
HELIOS
WOOD
COATINGS
HIGHLIGHT
THE MOST
NATURAL
BEAUTY OF
WOOD.
STAINS AND PATINAS

WOOD STAINS ARE TYPES OF WOOD COATINGS THAT HIGHLIGHT THE MOST NATURAL BEAUTY OF WOOD. THE STAINS COLOR WOODEN SURFACES, WHILE THE WOODEN STRUCTURE REMAINS VISIBLE, AND IMPROVE THE APPEARANCE.
KOMBIHEL STAINS

KOMBIHEL stains are produced on the basis of nitrocellulose, solved in organic solvents and colorants. The main advantage of these types of coatings is that stains color the wood surface while allowing the visibility of natural wood structure.

- Used for staining of all types of wooden surfaces, massive as well as veneered.
- Allows various application possibilities.
- Results in low lifting of wood fibers.

KOMBIHEL stains for spraying

Designed to achieve the most uniform color shade on veneered or massive wooden surfaces in such way that the visibility of the natural structure of wood is emphasized.

- Results in a homogeneous color shade throughout the wooden surface.
- Suitable for staining of wood with less distinct pores, such as beech, cherry, walnut, maple, birch, pear, spruce, pine, and others.

ADVANTAGES OF KOMBIHEL STAINS

- Bring out the beauty of the wood grain
- High intensity of color shades
- Quick drying
KOMBIHEL stains for wiping
Used for staining large wooden surfaces in such way that the natural structure of wood is emphasized.

- Results in a visible natural structure of wood.
- Suitable for staining of wood with more distinct pores, such as oak, ash, and others.
- Applicable even for large veneered or massive wooden surfaces.

KOMBIHEL stains for roller application
Used mainly in industrial lines.

KOMBIHEL PATINAS

KOMBIHEL patinas are the best choice to achieve special shading effects or highlight wooden pores, corners, and fake damages resembling inaccuracies of antique furniture.

- Used for patination of already base-lacquered wooden surfaces.
- Two types according to manufacturer’s wishes - patinas for shading and patinas for sanding.
- Available in metallic shades (silver, gold, copper) and in shades based on customer’s request.
- Patina has only a decorative function, therefore overcoating is obligatory.
EKOHEL STAINS

EKOHEL stains are made of water-based acrylic binders, water and colorants. The main advantage is that EKOHEL stains color wood surfaces while allowing the visibility of natural wood structure, and are as well environmentally friendly.

- Used for staining of all types of wooden surfaces, massive as well as veneered.
- Allow various application possibilities.

EKOHEL stains for dipping and spraying
For staining of all types of wooden furniture.

EKOHEL stains for roller application
Used mainly in industrial lines.

EKOHEL PATINAS

EKOHEL patinas are the best choice to achieve special shading effects or highlight wooden pores, corners, and fake damages resembling inaccuracies of antique furniture. EKOHEL patinas are water-based.

- Used for patination of already base-lacquered wooden surfaces.
- Two types according to manufacturer’s wishes - patinas for shading and patinas for wiping.
- Patinas are supplied in customer-requested color shades.
- Patina has only decorative function, therefore overcoating is obligatory.

ADVANTAGES OF EKOHEL STAINS

- Environmentally friendly
- Low-to-zero VOC
- Easy cleaning of tools and equipment
- Easy application process
- Uniform appearance of stained surfaces (especially by spraying)
LACQUERS AND ENAMELS

LACQUERS (CLEAR COATINGS) AND ENAMELS (PIGMENTED COATINGS) ARE AN IDEAL SOLUTION TO ACHIEVE UTMOST AESTHETICS AND QUALITY PROTECTION OF WOODEN FURNITURE AND INTERIOR JOINERY.
HIDROHEL coatings are the optimal choice when requesting an **ecologically favorable** option for surface treatment of interior furniture.

- One or two-component water-based coatings based on acrylic dispersion.
- Good chemical and mechanical resistance of the dried film.
- Low VOC content (below 70 g/l).
- Use of water as a diluent.
- Various application options (spraying, roller application, curtain coating, dipping).

HIDROHEL use is growing rapidly due to increasing environmental awareness and regulations to reduce emissions of organic solvents (European VOC Directive).

**HIDROHEL lacquers** (clear coatings)

**HIDROHEL enamels** (pigmented coatings)

### ADVANTAGES OF HIDROHEL COATINGS

- Ecologically favorable
- Good mechanical and chemical resistance
- Safe and easy-to-use (no risk of fire or explosion)
- Allow easy cleaning of the tools and equipment
HELIODUR coatings are the best choice when high physical–chemical resistance of elements is required.

• Two-component chemically curing coatings (reaction between –OH and –NCO group).
• High performance of dry film.
• Provide rich appearance and high-gloss surface.
• Intended for different kinds of application techniques (air, airmix, airless and electrostatic spraying and curtain coating).

HELIODUR lacquers (clear coatings)
HELIODUR enamels (pigmented coatings)

Due to good technical characteristics and simple application, the use of polyurethane coatings has spread beyond industrial lines e.g. in carpentry workshops.

ADVANTAGES OF HELIODUR COATINGS

• Durable furniture surface protection
• High surface hardness and elasticity
• Excellent mechanical and chemical resistance
• Easy treatment of different surfaces
• Possibility of drying at room temperature
• Possibility of different effects and processing

HELIOCEL and NITRO coatings are the most cost-effective choice for manufacturers, when there is no need for high physical–chemical resistance.

• One-component coatings are produced on the basis of nitrocellulose and alkyd binders, solved in organic solvents.
• Intended to protect wood surfaces, which are not exposed to weather influences or water.

HELIOCEL lacquers (clear coatings)
HELIOCEL enamels (pigmented coatings)

ADVANTAGES OF HELIOCEL COATINGS

• Super-fast drying
• Easy preparation
• Various application possibilities
• Allow easy cleaning of tools and equipment
• Allow easy corrections of already lacquered surfaces
UVEHEL coatings are UV curing coatings for advanced manufacturers of flat interior furniture. A great advantage is that UVEHEL coatings optimize the manufacturing process, as they allow very fast curing using UV drier and optimal material consumption.

- Based on acrylic binders and acrylic reactive solvents.
- UVEHEL coatings are most commonly used with roller application on typical industrial lines for treatment of flat furniture, interior doors and parquet.
- Also other application methods are possible (spray, curtain coater or vacuum).
- The product family consists of UVEHEL putties, basic lacquers and enamels, and universal and top lacquers and enamels.

UVEHEL lacquers (clear coatings)
UVEHEL enamels (pigmented coatings)

ADVANTAGES OF UVEHEL COATINGS
- Fast curing (UV drier) and time-efficient production procedures
- Minimal waste of materials during production
- Low material consumption for the given surface
- Outstanding chemical and physical characteristics of UV-cured films
- Low-to-zero emission of solvents ($\geq 100\%$ solid content)
- Excellent sanding

UVEHEL AQUA coatings are UV curing coatings for the most advanced manufacturers of interior furniture. A main advantage is that they are designed for spraying application, which provides a great solution for profiled wooden furniture, and three-dimensional furniture.

- Based on high reactive polyurethane acrylic dispersions.
- Water is the solvent.
- Great solution for interior furniture and due to spraying application, for profiled wooden furniture and three-dimensional furniture.
- The product family consists of UVEHEL AQUA basic lacquers and enamels, universal lacquers, and top lacquers and enamels.

UVEHEL AQUA lacquers (clear coatings)
UVEHEL AQUA enamels (pigmented coatings)

ADVANTAGES OF UVEHEL AQUA COATINGS
- Possibility of spraying application
- No emission of organic solvents
- Time-efficient production procedures
- Excellent chemical and physical characteristics
- Easy cleaning of the tools and equipment
BIO PROGRAM

WOOD PROTECTION TECHNIQUES WITH NATURAL VEGETABLE OILS AND WAXES EMPHASIZE THE NATURAL COLOR AND BEAUTY OF WOOD. THESE BIO OILS AND WAXES ARE BIO-DEGRADABLE AND DO NOT SEAL THE TIMBER, BUT LET IT BREATHE.
BIO IMPREGNOL AND BIOHEL
OILS AND WAXES

BIO IMPREGNOL and BIOHEL present natural oils and waxes for wood impregnation. The natural oils and waxes are the best choice when environmentally friendly techniques and bio-degradable materials are requested. An eco-friendly attitude and concern for future generations are a guidance we should implement in our everyday lives.

ADVANTAGES OF BIO OILS AND WAXES

- Wood protection techniques with natural vegetable oils and waxes emphasize the natural color and beauty of wood.
- Do not seal the timber, but let it “breathe”.
- Do not burden the environment, as these products are completely biologically degradable.

ADVANTAGES OF BIO OILS AND WAXES

- Bio impregnation for wood
- Natural and bio-degradable substances
- Emphasize the natural color and beauty of wood
- No plasticization of wood
- No formation of the film
- High-solid
- Environmentally friendly and bio-degradable
ECOLOGICAL ATTITUDE TOWARDS NATURE SHOULD BECOME THE PRINCIPLE OF OUR EVERYDAY LIVES.
EXTERIOR STAINS

AQUAVITA SYSTEMS ARE DESIGNED AS A COMPLETE SET OF PRODUCTS FOR PROFESSIONAL WOOD CARE FOR EXTERIOR JOINERY AND GARDEN FURNITURE. TREATED WOODEN SURFACES REMAIN BEAUTIFUL AND WELL-PROTECTED FOR MANY YEARS TO COME.
AQUAVITA system is the ideal choice when requesting a complete set of products for professional wood protection for exterior joinery and garden furniture.

- Produced on the basis of water and modern components.
- Resistant to UV-rays and other atmospheric influences.
- Not only enrich wood, but also protect it against wood pests (fungi, insects) and weather influences.

Care and maintenance
The frequency of further applications of coatings for maintenance of wood protection is on average five years, and it depends on the following:
- level of exposure to weather influences,
- color shade, and
- regular care of exterior joinery and garden furniture.

A set of products of AQUAVITA system:
- Impregnations
- Egalisers
- Intermediate coatings
- Primers
- Top coats
- Enamels
- Oils
- Fillers for corner joints, coatings for end-wood
- Caring milk

Flawless exterior doors and windows for over ten years guaranteed with regular maintenance of wooden surfaces with AQUAVITA system.

ADVANTAGES OF AQUAVITA

- Water-based
- UV-resistant
- Enriches wood
- Protection against insects and fungi
- Protection against weather influences
### INTERIOR COATINGS BY FURNITURE / JOINERY TYPE

<table>
<thead>
<tr>
<th>BRAND</th>
<th>KITCHENS</th>
<th>BATHROOMS</th>
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<tbody>
<tr>
<td>KOMBIHEL stains</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>KOMBIHEL patinas</td>
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<tr>
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<tr>
<td>HELIOCEL lacquers and enamels</td>
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<tr>
<td>BIO IMPREGNOL</td>
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### COATINGS BY APPLICATION

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<tr>
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<th>COLOR</th>
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<tr>
<td>KOMBIHEL stains</td>
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<tr>
<td>KOMBIHEL patinas</td>
<td>shades according to customer’s sample and metallic shades</td>
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<td>EKOHEL stains</td>
<td>shades according to customer’s sample, MIX system</td>
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<tr>
<td>EKOHEL patinas</td>
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<tr>
<td>HELIOCEL lacquers</td>
<td>clear lacquers in different gloss</td>
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<td>HELIODUR lacquers</td>
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</tr>
<tr>
<td>HIDROHEL lacquers</td>
<td>black, white, shades according to customer’s sample</td>
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<tr>
<td>HIDROHEL enamels</td>
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<tr>
<td>UVEHEL AQUA lacquers and enamels</td>
<td>clear lacquer, color cards, white, shades according to customer’s sample</td>
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<td>HIDROHEL enamels</td>
<td>black, white, shades according to customer’s sample, MIX system</td>
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<tr>
<td>BIO IMPREGNOL</td>
<td>clear impreg., shades according to color cards and customer’s sample</td>
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<tr>
<td>AQUAVITA</td>
<td>color cards, shades according to color card and customer’s sample</td>
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<td>Impregnations</td>
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<tr>
<td>Top coats</td>
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<tr>
<td>Enamels</td>
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### EXTERIOR COATINGS BY FURNITURE / JOINERY TYPE

<table>
<thead>
<tr>
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<th>BUILDING JOINERY</th>
<th>FACADES, BALCONIES, FENCES, TIMBER WALLS</th>
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<tbody>
<tr>
<td>BIO IMPREGNOL</td>
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<tr>
<td>Impregnant extra</td>
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<td>Impregnant dip &amp; brush</td>
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<td>Intermediate coats</td>
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HELIOS WOOD COATINGS MEET THE CUSTOMER'S DEMAND FOR SUPREME RELIABILITY AND SAFETY.