

System solutions

CONSTRUCTION CATALOGUE

GROUP KANSAI HELIOS IN NUMBERS

560 mio €

in sales

145.000 m²

production areas

2.320

employees

200 +

employees in R&D

Delivering to more than

50.000

customers in more than
89 countries worldwide

24

companies in 16
European countries

100 years

of tradition

DEAR USERS,

we are pleased to present a new catalogue, which was carefully prepared and adapted to cover areas of project work and construction industry. The catalog contains a selection of frequent system solutions that we have designed from a wide range of KANSAI HELIOS Group products. You can find products that are result of knowledge in the coating industry, which has been developed in KANSAI HELIOS Group for more than 100 years. Today in Helios, more than 2.320 people make sure that you, our customers around the world, are satisfied with both the products and our solutions and support.

KANSAI HELIOS is one of the largest coating groups in the European market, so we can offer our customers numerous customized products and solutions. The complete offer includes segments of decorative, wood, metal, car refinishing and road coatings, as well as products for the chemical industry and synthetic resins. In 2017 HELIOS Group became a member of the global coatings group Kansai Paint. As part of one of the world's leading paint and coating manufacturers, KANSAI HELIOS is becoming a European center for innovation, research and development, production and distribution. In addition to this, we are introducing principles of sustainable development and care for the environment in all areas of our development and operation. This means that we are also developing new products and solutions in order to reduce our consumption of resources and carbon footprint. All companies in KANSAI HELIOS Group operate in accordance with the highest environmental, industrial and safety standards.














Dear users, we invite you to look through our catalogue and contact our experts, who will offer you the most appropriate solutions for your project with their useful advice and experience. Our successful cooperation and your ultimate satisfaction is what we all strive for in Helios and what will make us truly proud.

Sincerely,
KANSAI HELIOS Team

WOOD PROTECTION

5.1.1	Wood protection (enamels)	173
5.1.2	Wood protection (transparent coatings)	181
5.2	Industrial Wood protection	188
5.2.1	Wood protection (enamels)	191
5.2.2	Wood protection (transparent coatings)	191
5.2.3	Wood protection (oils)	191
	Technical information	195

5.1.1 WOOD PROTECTION (ENAMELS)

QUALITY LEVEL	IMPREGNATION	PUTTY	PRIMER	TOP COAT
PREMIUM	water  • BORI AQUA IMPREGNATION WITH BIOCIDES	 • TESSAROL ACRYLIC PUTTY FOR WOOD	 • TESSAROL ACRYLIC PRIMER FOR WOOD	 • TESSAROL ACRYLIC ENAMEL
	solvent  • BORI IMPREGNATION WITH BIOCID W	 • TESSAROL SPATULA PUTTY	 • TESSAROL PRIMER FOR WOOD	 • TESSAROL PRO PROTECT • TESSAROL ENAMEL
ECONOMY	water  • COLOR WOOD PUTTY	 • COLOR ACRYLIC PRIMER FOR WOOD	 • COLOR ACRYLIC ENAMEL	
	solvent  • COLOR WOOD PUTTY	 • COLOR PRIMER FOR WOOD	 • COLOR ENAMEL	



Impregnation

BORI IMPREGNATION WITH BIOCIDES W

Solvent-based protection of wood against blue stain, mould, wood fungi and insects



- good penetration
- easy to apply



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for the impregnation of outdoor wood (windows, doors, roofings, panellings, pergolas, fences, garden furniture) and in damp indoor rooms (bathrooms, kitchens, cellars).
CONSUMPTION:	1 l covers 6–7 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	0.75 l / 2.5 l
COLOUR SHADES:	colourless

BORI AQUA IMPREGNATION WITH BIOCIDES

A water-based protection of wood from blue stains, mould, wood fungus and insects



- good penetration
- easy to apply



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for the impregnation of outdoor wood (roofings, projecting roofs, fences, garden houses) and in damp interior rooms (bathrooms, kitchens, cellars).
CONSUMPTION:	1 l covers 8–9 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	0.75 l / 5 l
COLOUR SHADES:	colourless

Putty

TESSAROL SPATULA PUTTY

Good sanding



- solvent-based
- easy to apply



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	levelling out of surface – elimination of defects and damages, such as cracks, dents, scratches.
CONSUMPTION:	depends on the size of damage
THINNING:	ready for use
PACKAGING UNITS:	0.5 kg / 0.9 kg
COLOUR SHADES:	white

TESSAROL ACRYLIC PUTTY FOR WOOD

Very quick drying and good sanding



- easy to apply
- environmentally friendly



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for levelling out of smaller surface irregularities on wooden surfaces prior to the application of decorative priming coatings in interior rooms and outdoors.
CONSUMPTION:	1 kg covers 1 m ² of surface in with a 1 mm coat thickness
THINNING:	ready for use
PACKAGING UNITS:	0.75 kg
COLOUR SHADES:	white, spruce, beech, oak

COLOR WOOD PUTTY

Aimed at eliminating defects and damage on wood surfaces



- solvent-based
- for surfaces exposed to weather influences
- easy to use
- ensures nice, smooth surfaces



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for putting small cracks and unevenness prior to application.
CONSUMPTION:	depends on the size of damage
PACKAGING UNITS:	0.5 kg / 0.9 kg
COLOUR SHADES:	white

Primer

TESSAROL PRIMER FOR WOOD

Evens out the surface absorbency



- solvent-based
- priming matt coating which enables the wood to breathe
- good coverage
- good levelling
- easy to work with
- good adhesion



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	different wooden surfaces (windows, doors, fences, wooden structures), hardboard, chipboard, renovation of old furniture.
CONSUMPTION:	1 l covers 10–12 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	0.75 l / 2.5 l
COLOUR SHADES:	white

TESSAROL ACRYLIC PRIMER FOR WOOD

Contains an additive which blocks water-soluble substances (prevents the formation of yellow stains)



- quick-drying
- thinning with water
- eco-friendly
- no unpleasant odours
- good adhesion



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	different wooden surfaces (windows, doors, fences, wooden structures), different panellings in interior rooms and outdoors.
CONSUMPTION:	1 l covers 8–10 m ² of surface in 1 coat
THINNING:	water
PACKAGING UNITS:	0.75 l
COLOUR SHADES:	white

COLOR PRIMER FOR WOOD

Primer for the protection of wood surfaces



- for indoors and outdoors
- good coverage



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for larger and smaller surfaces; for the best effect apply before use.
CONSUMPTION:	0.65 l / 6–8 m ² 3.5 l / 32–42 m ²
PACKAGING UNITS:	0.65 l / 3.5 l
COLOUR SHADES:	white

COLOR ACRYLIC PRIMER FOR WOOD

Water-based primer for the protection of wood



- equalizes the absorbency of wood surfaces
- improves the adhesion of the final top coat
- good coverage
- prevents the further soaking of water-soluble substances in wood (tannin)
- quick-drying



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	water-based primer for the protection of wood indoors and outdoors.
CONSUMPTION:	1 l covers 8–10 m ² of surface in 1 coat
THINNING:	with water, if required
PACKAGING UNITS:	0.65 l
COLOUR SHADES:	white

Top coat

TESSAROL ACRYLIC ENAMEL (GLOSS/SATIN)

Quick-drying without an unpleasant smell



- eco-friendly
- thinning with water
- stable gloss and colour shades (white and light colours shades do not become yellow)
- good elasticity
- resistant to household cleaning agents



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for windows, doors, fittings, wood claddings, fences, structures, simple furniture indoors and outdoors.
CONSUMPTION:	1 l covers 10–12 m ² of surface in 1 coat
THINNING:	water
PACKAGING UNITS:	standard colour shades: 0.2 l / 0.65 l / 2.6 l HGMIX: 0.65 l / 2.6 l

COLOUR SHADES: satin: white and 10 standard colour shades
gloss: white and black



TESSAROL PRO PROTECT

Quick-drying top coat for the protection of metals, wood and elements from artificial materials, both indoors and outdoors



- up to 10 years of uv persistence
- stable gloss and stable colour shade (white and light shades practically do not become yellowish)
- excellent hiding power
- quick drying – 6 hours
- easy to apply, easy to work with, good levelling
- good elasticity and hardness
- great weather resistance
- resistance to household cleaning agents



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	windows, doors, fittings, wood claddings, fences, constructions, simple furniture in indoor surfaces and outdoor areas.
CONSUMPTION:	1 l covers 14–16 m ² of surface in 1 coat
THINNING:	with TESSAROL thinner if necessary
PACKAGING UNITS:	standard colour shades: 0.75 l HGMIX: 0.75 l

COLOUR SHADES: satin: white
gloss: white



TESSAROL ENAMEL (GLOSS/SATIN)

Long-term colour protection of different surfaces



- excellent hiding power and levelling
- good elasticity and hardness
- stable gloss and colour shade
- finishing gloss or semi-gloss coat
- good weather- and light resistance



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for windows, doors, fittings, wood claddings, fences, structures, simple furniture indoors and outdoors.
CONSUMPTION:	1 l covers 14 – 16 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	standard shades: 0.21 / 0.75 l / 2.5 l / 10 l (silver) HGMIX: 1 l / 3 l / 10 l

COLOUR SHADES: gloss: white and 15 standard colour shades
satin: white (1S) and black (2S)



COLOR ENAMEL

Comprehensive protection and decoration of wooden and metal surfaces

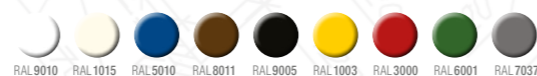


- protection against weather influences
- high level of hiding power
- easy to use



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for combining comprehensive protection and decoration, as it is intended for both wood and metal surfaces. For painting wood and metal surfaces with COLOR ENAMEL to protect from weather effects, such as water and UV rays.
CONSUMPTION:	0.65 l / 7 – 9 m ² 3.5 l / 42 – 49 m ²
THINNING:	ready for use
PACKAGING UNITS:	0.65 l / 3.5 l



COLOR ACRYLIC ENAMEL

Comprehensive protection and decoration of wooden and metal surfaces

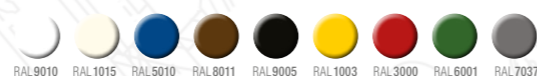


- protects against all weather influences
- quick-drying
- no unpleasant odours
- does not yellow
- water-based



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for combining comprehensive protection and decoration, as it is intended for both wood and metal surfaces. For painting wood and metal surfaces with COLOR ENAMEL to protect from weather effects, such as water and UV rays.
CONSUMPTION:	1 l covers 9 – 11 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	0.65 l





5.1.2 WOOD PROTECTION (TRANSPARENT COATINGS)

QUALITY LEVEL		IMPREGNATION	TOP COAT		
PREMIUM	water	 <ul style="list-style-type: none"> • BELINKA IMPREGNANT ACTIVE 	 <ul style="list-style-type: none"> • BELINKA EXTERIER 		
	water (interior)		 <ul style="list-style-type: none"> • BELINKA INTERIER • BELINKA INTERIER LAK 		
	solvent	 <ul style="list-style-type: none"> • BORI IMPREGNATION WITH BIOCID W 	 <ul style="list-style-type: none"> • BORI HIGH-LAYER WOODSTAIN • BORI HIGH-LAYER WOODSTAIN UV EXTRA • BORI WOODSTAIN 3in1 		
STANDARD	water	 <ul style="list-style-type: none"> • BORI AQUA IMPREGNATION WITH BIOCIDES 	 <ul style="list-style-type: none"> • BORI WOODSTAIN 		
	solvent	 <ul style="list-style-type: none"> • BORI IMPREGNATION WITH BIOCID W 	 <ul style="list-style-type: none"> • BORI THIN-LAYER WOODSTAIN 		
ECONOMICAL	solvent		 <ul style="list-style-type: none"> • COLOR STAIN 		
AUXILIARY PRODUCTS		 <ul style="list-style-type: none"> • BELINKA FENTIN 	 <ul style="list-style-type: none"> • BELINKA BELPROTECT 	 <ul style="list-style-type: none"> • BELINKA BELOCID PLUS 	 <ul style="list-style-type: none"> • BELINKA ILLUMINA

Impregnation

BELINKA IMPREGNANT ACTIVE

Water-based preventive protection of wood



- impregnation for all types of wood
- preventive protection of wood from wood pests
- no unpleasant odour



INSTRUCTIONS FOR USE

AREA OF APPLICATION: colorless waterborne impregnation coating for the basic, preventive protection of wood from biological pests (insects, blue stain fungi and wood decay fungi). It is used to protect wood that requires protection with waterborne coatings and is exposed to the effects of weathering or located in humid spaces. Impregnant improves the adhesion of top coats onto the surface.

CONSUMPTION: 1 l covers 8–9 m² of surface in 1 coat

THINNING: Not to be thinned

PACKAGING UNITS: 0.75 l / 2.5 l

BORI IMPREGNATION WITH BIOCID W

Solvent-based protection of wood against blue stain, mould, wood fungi and insects



- good penetration
- easy to apply



INSTRUCTIONS FOR USE

AREA OF APPLICATION: for the impregnation of outdoor wood (windows, doors, roofings, panellings, pergolas, fences, garden furniture) and in damp indoor rooms (bathrooms, kitchens, cellars).

CONSUMPTION: 1 l covers 6–7 m² of surface in 1 coat

THINNING: ready for use

PACKAGING UNITS: 0.75 l / 2.5 l

COLOUR SHADES: colourless

BORI AQUA IMPREGNATION WITH BIOCID W

A water-based protection of wood from blue stains, mould, wood fungus and insects



- good penetration
- easy to apply



INSTRUCTIONS FOR USE

AREA OF APPLICATION: for the impregnation of outdoor wood (roofings, projecting roofs, fences, garden houses) and in damp interior rooms (bathrooms, kitchens, cellars).

CONSUMPTION: 1 l covers 8–9 m² of surface in 1 coat

THINNING: ready for use

PACKAGING UNITS: 0.75 l / 5 l

COLOUR SHADES: colourless

Top coat

BELINKA EXTERIER

Water-based protection of wood outdoors



- weather-resistance and effective UV protection
- contains a film preservative
- no unpleasant odour



INSTRUCTIONS FOR USE

AREA OF APPLICATION: waterborne stain for the protection of wood outdoors. Special UV absorbers and nano filters in conjunction with the other ingredients provide effective protection of wood from humidity, UV rays and other harmful effects of the environment. It also contains a film-preservation agent which prevents the growth of mould and algae on the surface of the coating. As the coating is blocking resistant, it is especially recommended for the protection of joinery. The exterior has a silky gloss.

CONSUMPTION: 1 l covers 8–10 m² of surface in 2 coats

THINNING: Not to be thinned

PACKAGING UNITS: 0.75 l / 2.5 l

COLOUR SHADES: 9 standard colour shades



BELINKA INTERIER

Water-based protection of wood indoors



- resistant to grease, sweat and mild cleaning agents
- no unpleasant odour
- high mechanical resistance



INSTRUCTIONS FOR USE

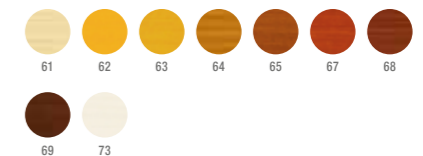
AREA OF APPLICATION: waterborne stain for the protection of wood indoors. It is distinguished by its resistance to frequently occurring factors indoors, such as grease, sweat and mild cleaning agents. It can therefore be used to coat wooden panelling, shelves, internal doors and less demanding furniture. Belinka Interior has a silky gloss.

CONSUMPTION: 1 l covers 8–10 m² of surface in 2 coats

THINNING: Not to be thinned

PACKAGING UNITS: 0.75 l / 2.5 l

COLOUR SHADES: 9 standard colour shades + 3 shades on request



BELINKA INTERIER LAK

Colorless protection of wood in living spaces



- high mechanical resistance
- resistance to mild cleaning agents and household stains
- no unpleasant odour



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	colourless coating for the protection of wood in living spaces. It is used as the initial wood protection and for coating surfaces which had been coated with one of Belinka's products before. Keeps the structure of the wood visible, gives the surface a shiny appearance and improves resistance. It can also be used to coat dark surfaces.
CONSUMPTION:	1 l covers 8–10 m ² of surface in 2 coats
THINNING:	Not to be thinned
PACKAGING UNITS:	0.2 l / 0.75 l

BORI HIGH-LAYER WOODSTAIN

Long-term protection of wood against external influences

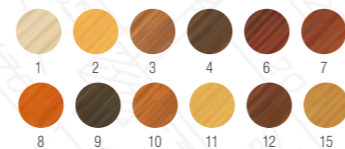


- wax content which increases the water repellency of a coating
- rich, silky gloss coating film appearance
- for dimensionally stable wood
- elasticity – the protective film does not crack and does not peel off
- wide range of colour shades



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for the final decoration and protection of wood indoors and outdoors: windows, doors, shutters, fences, panellings and cladding, log cabins, garden houses, garden furniture, etc.
CONSUMPTION:	1 l covers 16–20 m ² of surface in 1 coat
THINNING:	not to be thinned
PACKAGING UNITS:	standard colour shades: 0.75 l / 2.5 l / 5 l HGMIX: 0.75 l / 2.5 l
COLOUR SHADES:	12 standard colour shades



BORI WOODSTAIN

Transparent and environmentally friendly water-based coating which preserves the natural appearance of wood



- excellent protection from sun and other effects of weathering
- contains waxes which enhance the coating's water resistance
- dimensional stability
- satin coating films
- wide range of colour shades



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for the decoration and protection of wood indoors and outdoors: joinery, panelling, pergolas, garden furniture, log cabins, garden houses, etc.
CONSUMPTION:	1 l covers 14–16 m ² of surface in 1 coat
THINNING:	water
PACKAGING UNITS:	standard colour shades: 0.75 l / 2.5 l HGMIX: 1 l
COLOUR SHADES:	9 standard colour shades



BORI HIGH-LAYER WOODSTAIN

Long-term protection of wood against external effects



- contains substances that increase the coating's water resistance
- rich, silky gloss coating film
- dimensional stability of wood
- elasticity - the protective film does not crack or peel off
- wide range of colour shades



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for the final decoration and protection of wood indoors and outdoors: windows, doors, shutters, fences, panellings and cladding, log cabins, garden houses, garden furniture, etc.
CONSUMPTION:	1 l covers 16–20 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	standard colour shades: 0.75 l, 2.5 l, 5 l
COLOUR SHADES:	12 standard colour shades



BORI HIGH-LAYER WOODSTAIN UV EXTRA

Long-term colourless protection of light wood, which preserves the natural colour shade



- protection of wood from the effects of the sun
- contains a special UV additive which prevents the wood from turning gray
- rich, silky gloss coating film
- contains substances that increase the coating's water resistance
- elasticity - the protective film does not crack or peel off



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	colourless final decoration and protection of wood indoors and especially outdoors: windows, doors, shutters, fences, panellings and cladding, log cabins, garden houses, garden furniture, etc.
CONSUMPTION:	1 l covers 12–14 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	0.75 l / 2.5 l
COLOUR SHADES:	colourless

BORI Woodstain 3 in 1

Universal woodstain for the decoration and protection of exterior wooden surfaces

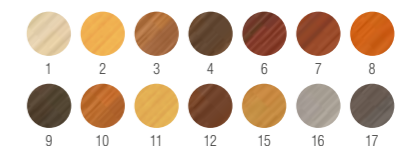


- a film finish with a silky appearance
- preventive wood protection against mould
- contains waxes which enhance the coating's water resistance
- protection of wood from the sun and other effects of weathering
- elasticity – the protective film does not crack or peel off
- easy to apply



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	decoration and protection of exterior wood, suitable for surfaces such as windows, doors, blinds, shutters, fences, coverings, log cabins, garden sheds and furniture etc.
CONSUMPTION:	1 l covers 16–20 m ² of surface in 1 coat
THINNING:	not to be thinned
PACKAGING UNITS:	standard colour shades: 0.75 l / 2.5 l
COLOUR SHADES:	14 standard colour shades



BORI THIN-LAYER WOODSTAIN

Decorative and deep protection of wood with added natural oil



- transparent coating which enhances the natural appearance of wood
- does not contain biocidal agents
- elasticity -the protective film does not crack or peel off
- easy to apply

**INSTRUCTIONS FOR USE**

AREA OF APPLICATION:	for panelling, wall and ceiling cladding, fences, etc. Used as an intermediate coating in the system protection and decoration of wooden surfaces indoors and outdoors.
CONSUMPTION:	1 l covers 10 – 12 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	standard colour shades: 0.75 l / 2.5 l / 5 l / 10 l / 100 l
COLOUR SHADES:	12 standard colour shades

**COLOR WOODSTAIN**

Translucent coating used for the protection and colouring of new as well as already painted wood surfaces



- maintains the wood's natural beauty
- protects against weather influences

**INSTRUCTIONS FOR USE**

AREA OF APPLICATION:	takes care of the wood's natural beauty, as after painting it in the selected shade, the texture of the wood remains visible and its surface is adequately protected.
CONSUMPTION:	1 l covers 8 – 10 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	0.75 l / 2.5 l / 5 l
COLOUR SHADES:	8 standard shades

**Auxiliary products****BELINKA FENTIN**

Liquid insect repellent



- effectively repels insects that have already infested wooden surfaces

**INSTRUCTIONS FOR USE**

AREA OF APPLICATION:	liquid agent in the form of an aerosol used for repelling insects in furniture and antiques, in various wooden objects, as well as in joinery and parquet.
CONSUMPTION:	depends on the extent of infestation by wood pests.
THINNING:	ready for use
PACKAGING UNITS:	200 ml

BELINKA BELPROTECT

Improves the resistance of the coated surface



- contains additives that protect the film against mould and algae
- preserves the pre-coat color
- glossy final appearance of the surface

**INSTRUCTIONS FOR USE**

AREA OF APPLICATION:	colourless coating for improving the resistance of the coated surface. It contains additives that protect the film against mould and algae. With Belprotect, the coated surface retains its pre-coat color. The product is also suitable as a top coat over dark-colored surfaces. Belprotect is not a biocidal product and is not intended to protect wood from wood pests such as fungi and insects.
CONSUMPTION:	1 l covers 15 – 25 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	0.75 l

BELINKA BELOCID PLUS

Effectively repels wood pests



- remedial treatment of wood that has already been infested
- destroys fungi and insects
- has a preventive function
- contains the most advanced biocides

**INSTRUCTIONS FOR USE**

AREA OF APPLICATION:	colourless liquid agent, produced on the basis of water and the most advanced biocides, which effectively removes pests. It has a curative effect against insects and a preventative effect against fungi. Belocid should always be applied together with a product that does not contain biocides, so as to keep biocides inside the wood and prevent them from coming in direct contact with the surrounding environment.
CONSUMPTION:	1 l covers 3 – 5 m ² of surface (depends on the level of infestation)
THINNING:	ready for use
PACKAGING UNITS:	0.75 l / 2.5 l / 5 l / 10 l

BELINKA ILLUMINA

Covering stain for lightening wooden surfaces



- covers the dark surface and brings the shade closer to the natural colour
- suitable for lightening wood on outdoor surfaces

**INSTRUCTIONS FOR USE**

AREA OF APPLICATION:	coating stain used to lighten dark, stain-coated surfaces on the outdoor parts of roofings, facade coatings, fences, garden sheds, garden furniture, etc. The coating covers the dark surface and makes the shade more similar to the natural colour of spruce wood. The selected woodstain in a light shade (Toplasur uv plus) is then used to cover this lightened surface. When coating is done properly, the wood can have a natural appearance. It is not used as a stand-alone coating.
CONSUMPTION:	1 l covers 15 – 25 m ² of surface in 1 coat
THINNING:	ready for use
PACKAGING UNITS:	0.75 l / 2.5 l

The background of the page is a photograph of a modern building with a grid-like facade. Overlaid on this is a semi-transparent wireframe of the same building, creating a technical or architectural feel. The overall color palette is a muted blue-grey.

INDUSTRIAL WOOD PROTECTION

5.2.1	Wood protection (enamels)	191
5.2.2	Wood protection (transparent coatings)	191
5.2.3	Wood protection - oils	191
	Technical information	195





5.2.1 WOOD PROTECTION (enamels)

QUALITY LEVEL		IMPREGNATION	PRIMER	TOP COAT
PREMIUM	water	 <ul style="list-style-type: none"> • AQUAVITA impregnant extra 	 <ul style="list-style-type: none"> • AQUAVITA Enamel Primer Spray&Brush 	 <ul style="list-style-type: none"> • AQUAVITA enamel brush

5.2.2 WOOD PROTECTION (transparent coatings)

QUALITY LEVEL		IMPREGNATION	TOP COAT
STANDARD	water	 <ul style="list-style-type: none"> • AQUAVITA impregnant extra 	 <ul style="list-style-type: none"> • AQUAVITA top coat brush
ECONOMICAL	water	 <ul style="list-style-type: none"> • AQUAVITA impregnant extra 	 <ul style="list-style-type: none"> • AQUAVITA Wood Protecting Oil

5.2.3 WOOD PROTECTION - OILS

USE	PRODUCT	SHADES
INTERIOR	 <ul style="list-style-type: none"> • BIOHEL BIO IMPREGNOL RESIST 2C • BIOHEL IMPREGNOL WM 	<ul style="list-style-type: none"> • BIO MIX
EXTERIOR / GARDEN FURNITURE	 <ul style="list-style-type: none"> • BIO IMPREGNOL outdoor 	<ul style="list-style-type: none"> • BIO MIX

HELIOS also offers many other wood protection systems that can meet your specific requirements. Please contact your local HELIOS representative for further information.

5.2.1 Wood protection (enamels)

Impregnation

AQUAVITA impregnant extra

Impregnation agent with a fungicidal and insecticidal function



- preventively protects wood from blue stain, rot and insects



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for the preventive protection of building furniture and construction wood that is not in constant contact with earth or water. Used as a primer for the protection of building furniture and other wood products in the use classes 1 to 3 (DIN EN 335). Weather-exposed wood elements in class 3 (windows, doors, facade linings, fences, shutters) should be protected with weatherproof coatings after applying AQUAVITA Impregnant Extra.
CONSUMPTION	120 – 180 g/m ²
PACKAGING UNITS:	5 kg / 10 kg / 20 kg

Primer

AQUAVITA Enamel Primer Spray&Brush

Primer for spraying and brush



- perfectly blocks water-soluble substances and micronized resins



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	used as a primer for the protection of building furniture (windows, doors, shutters) of all types of wood, and also as a primer for the protection of other wood products in living areas and outdoors.
WET FILM THICKNESS:	100 – 200 µm
COLOUR SHADES:	BW mix
PACKAGING UNITS:	5 kg / 20 kg

Top coat

AQUAVITA Enamel Brush

Covering paint for the surface protection of wood for brush



- protection against weather influences
- does not give a plastic appearance
- dries quickly
- no unpleasant smell
- does not contain heavy metals



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	this product is used to protect all types of wood surfaces, both outdoors and indoors. It is suitable for the protection of windows, doors and all other wooden elements which are exposed to the effects of weather. As it dries quickly and is odourless, it is also very suitable for the protection of wood in living spaces.
WET FILM THICKNESS:	100 – 200 µm
COLOUR SHADES:	BW mix
PACKAGING UNITS:	5 kg / 20 kg

BW MIX

5.2.2 Wood protection (transparent coatings)

Impregnation

AQUAVITA impregnant extra

Impregnation agent with a fungicidal and insecticidal function



- preventively protects wood from blue stain, rot and insects



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for the preventive protection of building furniture and construction wood that is not in constant contact with earth or water. Used as a primer for the protection of building furniture and other wood products in the use classes 1 to 3 (DIN EN 335). Weather-exposed wood elements in class 3 (windows, doors, facade linings, fences, shutters) should be protected with weatherproof coatings after applying AQUAVITA Impregnant Extra.
CONSUMPTION	120 – 180 g/m ²
PACKAGING UNITS:	5 kg / 10 kg / 20 kg

Top coat

AQUAVITA Top Coat Brush

Thick-layer woodstain for the surface protection of wood for brush



- emphasises the wood's structure
- protection against weather influences
- dries quickly
- no unpleasant smell
- does not contain heavy metals



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	this product is used to protect all types of wood surfaces, both outdoors and indoors. It is suitable for the protection of windows, doors and all other wooden elements which are exposed to the effects of weather. As it dries quickly and is odourless, it is also very suitable for the protection of wood in living spaces.
WET FILM THICKNESS:	120 – 180 µm
PACKAGING UNITS:	5 kg, 10 kg and 20 kg
COLOUR SHADES:	BW mix

BW MIX

AQUAVITA Wood Protecting Oil

Thin-layer woodstain for the surface protection of wood for brush



- emphasises the wood's structure
- protection against weather influences
- does not contain heavy metals



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	used for the surface protection of all types of wood surfaces, both outdoors and indoors (facades, indoor linings, garden furniture). Suitable for the protection of all wood elements exposed to weather effects.
PACKAGING UNITS:	20 kg
COLOUR SHADES:	BW mix

BW MIX

5.2.3 Wood protection - oils

BIOHEL BIO IMPREGNOL RESIST 2C

Bio impregnation for wood, oil resistant to spilled drinks



- 2C oil (3A : 1B) with long pot life (min. 1 day)
- resistant to water, red wine, coffee, etc. (min. 1h water) in just one layer
- pleasant, smooth and waxy feel after application
- no solvents – 0% VOC (Comp. A & B)
- matt appearance, pleasant smell
- food contact certificate EN 1935-2004
- bio-based; consist 98% of unmodified plant origin
- emphasizes the natural color and beauty of wood



BIO IMPREGNOL WM

Bio impregnation for wood, resistant oil



- a pleasant, smooth and waxy feel after application
- dries quickly
- emphasises the natural colour and beauty of the wood
- certificate EN 71-3; Toy safety
- food contact certificate EN 1935-2004



BIO IMPREGNOL outdoor

Blend of vegetable oil with added solvents for better penetration



- water repellent
- emphasizes the natural color and beauty of wood
- easy renewal and maintenance



INSTRUCTIONS FOR USE

AREA OF APPLICATION:	protection of interior wooden furniture, where we want protection against spilled water and other drinks. Suitable for tabletops, counters, etc. With 2x application, it is also possible to use it to protect bathroom furniture that is in occasional contact with water and moisture.
CONSUMPTION:	15 – 20 g/m ²
APPLICATION METHOD:	wiping, rubbing & polishing, rolling
PACKAGING UNITS:	1 l (in combination with 0,33 l BIO IMPREGNOL accelerator)
COLOUR SHADES:	transparent & BIO MIX; white-wash & deep black available on demand

INSTRUCTIONS FOR USE

AREA OF APPLICATION:	for the protection of indoor wooden furniture, such as wooden closets, tables, beds. A great choice also for children's furniture and toys.
CONSUMPTION:	50 – 80 g/m ²
APPLICATION METHOD:	spreading, roller, spraying
PACKAGING UNITS:	1 l / 20 l
COLOUR SHADES:	Biomix

INSTRUCTIONS FOR USE

AREA OF APPLICATION:	protection of outdoor furniture. For longer lasting outdoor protection, preliminary biocidal impregnation is recommended.
CONSUMPTION:	50 – 80 g/m ²
APPLICATION METHOD:	wiping, dipping
PACKAGING UNITS:	20 l
COLOUR SHADES:	transparent & BIOMIX

WOOD PROTECTION

Since wood is a natural material, it is subject to decay due to weather effects. To extend its life span, it must be protected.

It is important for wood to be protected from water and moisture as much as possible. The first measure in the protection of wood is the constructional protection during installation. This means that wood must be installed in such a way that it is not in contact with the soil and that there is no possibility of water retention on the wood elements. Quick run-off must be enabled and drying after the end of precipitation. It is necessary to ensure that the water does not go on the back or under various metal linings and grooves. Modernly designed windows and doors should be installed as deep as possible in the facade (mandatory installation of drip edges). Roof slopes should be sufficiently wide. Wood in 'sandwich' structures must be built in a way that enables airing; it is also necessary to enable airing of facade linings. High-quality water insulation of buildings must be ensured to protect them from soil moisture.

Chemical protection is a preventive measure against biological pests. We guarantee it with preventive and repressive protection agents that contain biocides. They protect the wood against fungi, blue stain and wood insects. In living areas we use chemical protection only when its use is prescribed or, in individual cases, necessary. All wood that will be exposed to the influence of wood pests (external installation, damp spaces), will be preventively protected prior to installation. It is particularly important for transverse cuts to be well protected. Transverse cuts and sharp edges are critical points where the coating starts to decay and consequently, the wood.

Surface protection is a measure against weather and mechanical effects. Surface protection agents are woodstains, top coats and lacquers. They protect the wood from dirt, weather and mechanical effects, decorate the wood and give it a different gloss. Woodstains are used to preserve the

Coating with woodstains:

CHARACTERISTICS	LOW-BUILD WOODSTAIN	HIGH-BUILD WOODSTAIN
PURPOSE	Fences, facade wood, blinds	Windows, doors, hard woods
CONDITIONS FOR COATING	<ul style="list-style-type: none"> • the temperature of the surface, coating and environment should be above 10 °C. • relative air humidity should be between 40 and 80%. • avoid coating in strong sunlight. 	
SURFACE PREPARATION	<p>New wood: The humidity must not exceed 15% for coniferous trees, and 12% for deciduous trees. The dry surface should be sanded and cleaned, and any wax, resin or grease should be removed with TESSAROL NITRO THINNER.</p>	

Renovation of old coatings:

Undamaged coatings should be cleaned and sanded; damaged coatings should be removed completely.

Tips:

- Mix the paint well before use.
- For the renovation of old coatings, choose a lighter shade from the originally used colour, or mix the original shade with a colourless one. The number of coats affects the shade - with each coat, the shade becomes darker.
- As the type of wood significantly affects the final shade, we recommend testing the product on a small piece of wood.

natural appearance of wood, while at the same time protecting it from humidity and UV rays. Vapor permeability and easy renovation are also important properties of the woodstains.

Top coats cover the texture of wood completely, therefore they are most suitable for the decoration of less precious and damaged types of wood and for the renovation of old wood. Lacquers are top coats that give gloss to the wood and resistance to water and gentle household detergents. They are especially suitable for use in interior rooms.

If the wood element you want to protect will not be exposed to moisture and weather, the surface coating can be applied directly to the wood. All wood that will be exposed to weather or moisture should first be well impregnated and only then surface protected.

Quick-drying water-based coatings that are almost odorless and contain few volatile organic compounds, are most suitable for the protection of wood in living spaces.

One of the important factors for good wood protection is adequate **coating thickness**. The application must not be too thin nor not too thick. For the same coatings, weather resistance is greater and the coating durability is longer when the application is thicker. When the layers are too thin, UV light degrades the coating and the surface of the wood under the coating, which results in the deterioration of the surface and loss of adhesion to the wood. In such places, the coating 'disappears.' Potential consequences of thick coatings include the premature peeling of the coating, so a compromise must be made between its durability and the possibility of simpler renovation. For the protection of dimensionally stable wooden elements such as windows and doors, we recommend a film thickness of approx. 80 microns if using water stains. When using solvent-based stains, the film thickness should be about 60 microns. For dimensionally unstable (fencing) or semi-stable (facade cladding) wood, the layers should be thinner – 30 to 50 microns. The coating can only provide good protection if applied in the right thickness, so it is important to follow the recommended consumption of the coating per m².

- Lighter shades let through a lot of ultraviolet rays that degrade the lignin in the wood. We therefore recommend the use of BORI lacquer stain UV EXTRA or AQUAVITA top coat brush C-LM for colourless wood protection outdoors.
- When coating panellings, we recommend protecting wood from both sides in order to achieve a better dimensional stability.
- We do not recommend the use of impregnation in living spaces. It can be used only on small surfaces (doors, windows, etc.) and in damp spaces where people do not spend long periods of time (basements and bathrooms).

●● KANSAI
●● HELIOS

Helios TBLUS d.o.o.
Količevo 65, 1230 Domžale, Slovenia
T +386 1 722 40 00
projects@helios-group.eu
www.helios-profi.com

Member of ●● KANSAI HELIOS Part of  KANSAI PAINT

Follow us on:  Helios Architectural

