

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



WATER- PROOFING

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6.1 WATERPROOFING FOR FLAT ROOFS

| USE | STEP 1 | STEP 2 | STEP 3 | STEP 4 |
|------------|---|--|--|--|
| PREMIUM | <ul style="list-style-type: none"> • Polyurea Primer EP 430 • Polyurea Primer PU 420 | <ul style="list-style-type: none"> • Polyurea Flex | <ul style="list-style-type: none"> • Cold polyurea PAS TOP-COAT 450 | |
| STANDARD |  <ul style="list-style-type: none"> • ROOF EXPERT PU primer |  <ul style="list-style-type: none"> • ROOF EXPERT PU 510 |  <ul style="list-style-type: none"> • ROOF EXPERT REFORCE 50 |  <ul style="list-style-type: none"> • ROOF EXPERT PU 610 |
| ECONOMICAL |  <ul style="list-style-type: none"> • ROOF EXPERT C primer • ROOF EXPERT M primer • ROOF EXPERT MC primer |  <ul style="list-style-type: none"> • ROOF EXPERT AC |  <ul style="list-style-type: none"> • ROOF EXPERT REFORCE 50 |  <ul style="list-style-type: none"> • ROOF EXPERT AC |



Step 1

Polyurea Primer EP 430

Two-component solvent-free primer based on epoxy resin

- adhesion promoter - 1 coat
- blocks moisture in the substrates, up to 6% (carbide method) - 2 coats
- substrate consolidation primer - 1 coat

INSTRUCTIONS FOR USE

| | |
|----------------------|---|
| AREA OF APPLICATION: | improving adhesion to various substrates for waterproofing systems with polyurethane and polyurea coatings. |
| CONSUMPTION: | 0.3 – 0.5 kg/m ² /coat |
| THINNING: | not to be thinned |
| PACKAGING UNITS: | 10kg (A+B) |
| COLOUR SHADES: | colourless |

Polyurea Primer PU 420

One-component primer based on isocyanate

- adhesion promoter to existing bitumen membranes - 1 coat
- blocks moisture in the substrates, up to 3% (carbide method) - 2 coats
- substrate consolidation primer - 1 coat

INSTRUCTIONS FOR USE

| | |
|----------------------|---|
| AREA OF APPLICATION: | increase adhesion of polyurethane and polyurea coatings to existing bituminous membranes. |
| CONSUMPTION: | 0.18 – 0.23 l/m ² /coat |
| THINNING: | not to be thinned |
| PACKAGING UNITS: | 4 l |
| COLOUR SHADES: | colourless |

ROOF EXPERT PU primer

One-component primer based on isocyanate



- adhesion promoter to existing bitumen membranes
- blocks moisture in the surface, up to 3% (carbide method)
- substrate consolidation primer

INSTRUCTIONS FOR USE

| | |
|----------------------|---|
| AREA OF APPLICATION: | increase adhesion of polyurethane coatings to various surfaces. |
| CONSUMPTION: | 0.18 – 0.23 l/m ² /coat |
| THINNING: | not to be thinned |
| PACKAGING UNITS: | 4 l |
| COLOUR SHADES: | colourless |

ROOF EXPERT C primer

Priming coat for concrete substrates



- penetrates deep into substrate
- equalizes absorbency of the substrate
- anti-dust consolidating primer

INSTRUCTIONS FOR USE

| | |
|----------------------|---|
| AREA OF APPLICATION: | for the preparation of concrete and cement substrates before applying Roof expert AC coating. |
| CONSUMPTION: | 0.2 – 0.25 kg/m ² /coat of thinned impregnation |
| THINNING: | with water in a ratio of 5:1 |
| PACKAGING UNITS: | 5 kg |
| COLOUR SHADES: | white |

ROOF EXPERT M primer

Priming coat for galvanized steel surfaces



- excellent anti-corrosion protection
- excellent adhesion to galvanized metal
- excellent resistance to various weather conditions
- quick-drying

INSTRUCTIONS FOR USE

| | |
|----------------------|--|
| AREA OF APPLICATION: | protection of galvanized metal constructions before applying ROOF EXPERT AC coating. |
| CONSUMPTION: | 0.20 – 0.30 kg/m ² (0.217 g/m ² / 70µm) (theoretical) |
| THINNING: | with water up to 5% |
| PACKAGING UNITS: | 5 kg |
| COLOUR SHADES: | green RAL 6003 |

ROOF EXPERT MC primer

Priming coat for galvanized steel surfaces with anti-corrosion protection



- excellent anti-corrosion protection
- very good mechanical characteristics

INSTRUCTIONS FOR USE

| | |
|----------------------|--|
| AREA OF APPLICATION: | protection of damaged galvanized steel constructions before applying ROOF EXPERT AC coating. |
| CONSUMPTION: | 150 g/m ² (approx. 6 m ² /kg) |
| THINNING: | Nitro thinner ~ 5% |
| PACKAGING UNITS: | 5 kg |
| COLOUR SHADES: | grey RAL 7001 |

Step 2

Polyurea Flex

Two-component fast-curing waterproofing membrane

- applied at temperatures between +5 °C in +40°C
- excellent mechanical resistance
- very flexible material
- good chemical and abrasion resistance
- no overloads on load-bearing structures
- once cured, the product is completely inert

INSTRUCTIONS FOR USE

| | |
|----------------------|---|
| AREA OF APPLICATION: | waterproofing roofs, green roofs, inverted roofs, terraces, bridges, stadiums, airports, railways, garages (also as floor coatings), industrial productions, water parks, playgrounds, elastic lining of caravans, etc. |
| CONSUMPTION: | 2.2 kg/m ² |
| THINNING: | not to be thinned |
| PACKAGING UNITS: | 42.9 kg (A+B) / 429 kg (A+B) |
| COLOUR SHADES: | white, grey |

ROOF EXPERT AC

1K Elastic water-based liquid membrane



- environmentally friendly technology: without the use of APEO, ammonia and formaldehyde, low VOC content
- excellent bridging ability of cracks
- very flexible up to -20°C
- very resistant to UV light and temperature changes
- mechanically stable and resilient to pedestrian traffic
- resistant to dirt
- seamless; easy to fix

INSTRUCTIONS FOR USE

| | |
|----------------------|---|
| AREA OF APPLICATION: | waterproofing flat or sloping roofs, chimney openings, domes and curved roofs. Ideal for joining different materials. Excellent adhesion to: concrete, iron, wood, old bitumen, PU etc. |
| CONSUMPTION: | 0.20 – 0.30 kg/m ² as an primer 0.7 kg/m ² – protective coating (1 coat) 2.0 kg/m ² – waterproof membrane (for 1 mm thickness) |
| THINNING: | with water from 5 to 10% (as an example only) |
| PACKAGING UNITS: | 5 kg / 20 kg |
| COLOUR SHADES: | white, grey |

ROOF EXPERT PU 510

1K elastic liquid membrane based on polyurethane



- good mechanical, chemical, temperature and weather resistance
- based on pure elastomeric, hydrophobic polyurethane resin
- forms a continuous elastic, waterproof, vapour-permeable, seamless and contactless membrane
- applicable even on irregularly shaped surfaces
- affordable and reliable waterproofing solution
- easy to apply and durable solution in combination with UV stable Roof expert PU 610 top coat

INSTRUCTIONS FOR USE

| | |
|----------------------|---|
| AREA OF APPLICATION: | waterproofing flat or sloping roofs, chimney openings, domes and curved roofs. Ideal for joining different materials. Excellent adhesion to: mortar, concrete, brick, stone, old bitumen, roofing, metal surfaces, etc. |
| CONSUMPTION: | 1.5 kg/m ² |
| THINNING: | not to be thinned |
| PACKAGING UNITS: | 25 kg |
| COLOUR SHADES: | grey RAL 7040 |

Step 3

Cold polyurea PAS TOP-COAT 450

Two-component fast-curing, aliphatic, solvent-free polyaspartic finishing coat (cold polyurea)

- exceptional mechanical resistance
- elasticity
- excellent UV stability
- high resistance to wear
- excellent resistance to a wide range of chemicals
- high resistance to vehicle traffic

INSTRUCTIONS FOR USE

| | |
|----------------------|--|
| AREA OF APPLICATION: | protection of exposed polyurea systems and PU waterproofing layers on flat roofs, balconies, terraces, halls and decks for car parks, especially where resistance to mechanical loads is required, and to protect exposed epoxy systems. |
| CONSUMPTION: | 0.25 – 0.45 kg/m ² /coat |
| THINNING: | not to be thinned |
| PACKAGING UNITS: | 7 kg (A+B) / 25 kg (A+B) |
| COLOUR SHADES: | grey (RAL 7040), others on request |

ROOF EXPERT REFORCE 50

Reinforcing mesh made of glass fibres



- good dimensional stability
- UV-resistant
- chemically inert and non-toxic
- ensures the correct thickness of the waterproofing membrane
- improves the quality of bridging cracks in waterproofing membranes
- lightweight and easy to use, easy to cut

INSTRUCTIONS FOR USE

| | |
|----------------------|--|
| AREA OF APPLICATION: | reinforcement of ROOF EXPERT liquid waterproofing membranes. |
| PACKAGING UNITS: | In rolls - 1 m wide and 50 m long (50 m ²) |

ROOF EXPERT PU 610

1K elastic, liquid, UV-stable membrane based on polyurethane and the top coat for Roof expert PU 510



- good mechanical, chemical, temperature, UV and weather resistance
- based on pure elastomeric, hydrophobic polyurethane resin
- forms a continuous elastic, waterproof, vapour-permeable, seamless and contactless membrane
- excellent adhesion to various surfaces
- applicable even on irregularly shaped surfaces
- color-stable material that does not yellow and or need additional protection even when choosing darker shades

INSTRUCTIONS FOR USE

| | |
|----------------------|---|
| AREA OF APPLICATION: | waterproofing flat or sloping roofs, chimney openings, domes and curved roofs. Ideal for joining different materials. Excellent adhesion to: mortar, concrete, screed, brick, stone, metal surfaces, wood, roofing, old bitumen and most waterproofing membranes. |
| CONSUMPTION: | 0.5 kg/m ² |
| THINNING: | not to be thinned |
| PACKAGING UNITS: | 5 kg / 25 kg |
| COLOUR SHADES: | white |

6.2 WATERPROOFING MORTARS AND COATINGS

| USE | IMPREGNATION | WATERPROOFING COATING |
|---|--|---|
| indoors / outdoors as an intermediate coat |  <ul style="list-style-type: none"> • SPEKTRA Impregnation Acryl |  <ul style="list-style-type: none"> • HIDRONIVELIT 2K* (2K elastic polymer-cement membrane) |
| indoors as an intermediate coat |  <ul style="list-style-type: none"> • SPEKTRA Impregnation Acryl |  <ul style="list-style-type: none"> • HIDRONIVELIT 1K* (1K permanently elastic liquid membrane) |
| AUXILIARY PRODUCTS | <ul style="list-style-type: none"> • Edge tape 12 cm • Dilatation tape 5x100 mm |  <ul style="list-style-type: none"> • NEOSTIK POLYURETHANE BOND & SEAL |

* available to order

Impregnation

SPEKTRA Impregnation Acryl

Evens out surface permeability and improves adhesion



- penetrates deeply into the surface
- strengthens poorly bonded and chalked old coatings
- reduces the consumption of top coatings



INSTRUCTIONS FOR USE

AREA OF APPLICATION: for impregnation of lime and lime-cement surfaces, old chalked plasters and coatings, plaster cardboard panels and other porous surfaces, also used as a primer before using the SPEKTRA facade paint.

CONSUMPTION: 1 l of thinned impregnation covers 10 – 12 m² of surface in 1 coat

THINNING: with water, in the ratio up to 1 : 3, depending on surface permeability

PACKAGING UNITS: 1 l / 5 l / 10 l

COLOUR SHADES: colourless

Top coat

HIDRONIVELIT 2K*

Two-component elastic polymer-cement mortar for waterproofing concrete surfaces, plaster and cement screeds



- for interior and exterior use
- excellent adhesion to concrete, cement, ceramic and stone surfaces
- permanently elastic in all conditions
- waterproof
- bridges cracks



INSTRUCTIONS FOR USE

AREA OF APPLICATION: two-component elastic polymer-cement mortar for waterproofing surfaces in bathrooms, shower cabins, balconies, swimming pools and before laying ceramic tiles. For waterproofing concrete tanks and underground concrete walls. For the protection of concrete ceilings and carriers, road and rail viaducts before penetration of carbon dioxide. For the protection of concrete surfaces that are in contact with seawater or salts that cause dissolution.

CONSUMPTION: 1.7 kg at a coat thickness of 1 mm

PACKAGING UNITS: 9 kg - component A
24 kg - component B

HIDRONIVELIT 1K*

Polymeric waterproofing coating



- quick-drying
- does not contain solvents
- single-component
- permanently elastic
- waterproof
- for interior use



INSTRUCTIONS FOR USE

AREA OF APPLICATION: single-component liquid membrane for interior use, which is waterproof, quick drying, solvent-free and permanently elastic. Used for waterproofing walls and floors in bathrooms and shower cabins, and for waterproofing kitchen walls and floors before laying ceramic tiles. Not used as a top coat and must be covered with solid protection after caking (ceramic tile or natural stone).

CONSUMPTION: 1.5 kg/m² for two coats (2 mm)

PACKAGING UNITS: 7 kg / 25 kg

Auxiliary products

NEOSTIK POLYURETHANE BOND & SEAL

Polyurethane adhesive sealant for elastic joints and the adhesion of various materials



- thixotropic
- can be painted
- UV+
- durability
- elasticity
- high chemical resistance



INSTRUCTIONS FOR USE

AREA OF APPLICATION: various seals, concrete/concrete, construction, industrial floors, construction. Adhesion/sealing of: aluminium, steel, copper, PVC, concrete, brick, wood, ceramics, metal, styrofoam and some types of plastics.

PACKAGING UNITS: 300 ml ALU cartridge (white, grey)
600 ml (grey)

COLOUR SHADES: white, grey

Edge tape

12 cm

Dilatation tape

5×100 mm

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