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Member of KANSAI HELIOS Part of KANSAI PAINT



Decoration and protection of concrete surfaces

Concrete is one of the most commonly-used materials in construction. In order to permanently retain its functionality and appearance, it must be adequately protected. It is particularly important to protect it from water and CO₂, which causes the corrosion of concrete. To achieve a high-quality protection of concrete surfaces, a high-quality preparation of the surface is required, as well as the use of an appropriate coating, depending on the required mechanical and chemical stresses, and a correct application of the coating.

SPEKTRA Concrete Protect



Water-based **SPEKTRA Concrete Protect** is intended for the decoration and protection of exterior and interior concrete surfaces. It is used for painting vertical and less used floor areas (plinths, stairs, floors in boiler rooms and basements, etc.).

- High level of water resistance
- Good mechanical and chemical resistance
- CO₂ impermeability
- Good adhesion and hiding power
- High durability of shades
- Resistance to atmospheric stress

Instructions for use

The surface should be free from dust, loose particles, oils, grease and other impurities. We recommend cleaning with water pressure washing or steam. Concrete surfaces that are deeply soaked with grease and oil cannot be adequately cleaned. We therefore recommend removing and renovating them. Old coatings that have weak adhesion and are loose should be removed completely. Old coatings that have good adhesion should be sanded slightly before painting. Uneven surfaces and surface damages are to be smoothed with a suitable levelling compound. In the event that the concrete is damaged to the very armature, it should be removed. The armature should be blast cleaned until shiny and protected with a high-quality corrosion protection coating. Damaged areas should be filled using a suitable levelling compound. New concrete surfaces must be at least one month old before the first painting. Before painting, the surface must be cured, dried thoroughly and protected against the capillary penetration of vapour (hydroinsulated).

Coating system

Impregnation	Finishing coat
1× SPEKTRA Impregnation Acryl Special or 1× SPEKTRA Impregnation Acryl	2× SPEKTRA Concrete Protect

The importance of impregnation

Impregnation is recommended both for new and unpainted, as well as old and previously painted wall surfaces. Impregnation is not required only in the case of high quality, smooth and non-absorbent old coatings. Even with new and blank wall surfaces, impregnation unifies and simultaneously reduces the absorbency of the total area, enabling to achieve a uniform colour tone while using less paint. Impregnation thus consolidates, connects old coatings with each other, evens out the absorbency of the surface and improves the adhesion of new coatings. Of particular importance is the role of impregnation in the adhesion of high-quality coatings on a surface that has been previously painted with coatings of inferior quality.



SPEKTRA Impregnation Acryl Special

- Easy application without dripping
- Evens out and decreases surfaces permeability
- Strengthens poorly bonded old coatings
- Improves the adhesion of new coatings

SPEKTRA deep impregnation

- It allows excellent penetration into the surface, and thus works well also on less porous surfaces
- Strengthens poorly bonded and chalked old coatings
- Improves the adhesion of new coatings
- Reduces the consumption of top coatings
- Does not solve water-soluble salts in the surface
- Can be applied at low temperatures, even up to –10 °C



SPEKTRA Impregnation Acryl

- Penetrates deeply into the surface
- Evens out and decreases surface permeability
- Strengthens poorly bonded and chalked old coatings
- Improves the adhesion of new coatings
- Reduces the consumption of top coatings

SPEKTRA silicone impregnation

- Retains vapour permeability of surface
- Evens out and decreases surface permeability
- Strengthens poorly bonded and chalked old coatings
- Improves the adhesion of new coatings
- Reduces the consumption of top coatings



Construction coatings SPEKTRA

Decoration and protection of facade and concrete surfaces



Decoration and protection of facade surfaces

The purpose of facade paints is the decorative protection of facade surfaces. The aesthetic effect of the finishing coating is of course great, but the protection it offers is even greater. Facade paint must offer protection from weather, lighting and mechanical stress. The choice of colour shade also has a major impact on the protection of the facade, as darker shades absorb more heat, which can cause faster deterioration if this heat accumulates on the surface.

For the quality protection of facade surfaces, we recommend the use of **SPEKTRA Top Dry**, **SPEKTRA Renoxan**, **SPEKTRA Facade Silicone**, **SPEKTRA Facade Siloxane**, **SPEKTRA Facade Universal**, **SPEKTRA Facade Acryl** or **SPEKTRA Facade Standard**.

SPEKTRA Top Dry



SPEKTRA Top Dry is an acrylic façade paint with the function of exceptionally quick drainage and drying of façade surfaces after rain, dew and fog. As a result, the façade stays cleaner, and fast drying also prevents the formation of mould and algae. SPEKTRA Top Dry façade paint has a high durability of the shades and in the case of darker shades, it allows the use of shades based on IR pigments, which stay cooler compared to classic dark coating shades. This way, the entire system and the building itself stay cooler, which extends the façade's durability.

- Extremely fast drying of facade surfaces after rain, dew, and fog
- High durability of colour shades
- Biocide protection of coloured film
- HGMIX (Inorganic pigments)

SPEKTRA Renoxan



SPEKTRA Renoxan is a siloxane facade paint with high vapour permeability, which is particularly recommended when renovating various heat insulation systems based on highly vapour-permeable materials (EPS and MW) and other facade surfaces. It is distinguished by its ability to reinforce and bridge microcracks, high water repellency and high vapor permeability, biocidal protection of color film and a high level of resistance to weathering and harmful industrial atmosphere.

- For the restoration of thermal insulation systems (EPS and MW) as well as other facade surfaces
- High vapor permeability and high water repellency
- Ability of reinforcement and bridging of microcracks
- Biocide protection of coloured film
- HGMIX (Inorganic pigments)

SPEKTRA Facade Silicone



SPEKTRA Facade Silicone is made based on silicone resins. It is highly vapour-permeable and water-resistant and therefore optimal for the protection of facade surfaces. It is intended for the protection of heritage protected buildings, new facades and old houses, where the problem of humidity arises.

- Long-lasting and highly water-resistant
- Excellent vapour permeability
- Excellent hiding power
- High durability of shades
- Biocide protection of coloured film
- Resistance to atmospheric stress

SPEKTRA Facade Siloxane



SPEKTRA Facade Siloxane is made based on silicone resins and dispersion binder. High-quality finishing coat for old and new façade surfaces. It is suitable for lime-cement, dispersion, silicate and silicone plasters, and for renovation of old dispersion, silicate and silicone coatings.

- High vapour permeability
- High level of water resistant
- Stable colour shades (inorganic pigments)
- Water soluble, health- and environment friendly paint
- Resistance to the effects of weathering and the harmful industrial atmosphere
- Biocidal protection of the paint film

SPEKTRA Facade Universal



SPEKTRA Facade Universal is a micro-reinforced acrylic facade paint, intended for the restoration of thermal insulation systems based on polystyrene and mineral wool, and other facade surfaces, including those with already visible hairline cracks.

- Ability of reinforcement and bridging of microcracks
- Biocide protection of coloured film
- High level of water resistance
- Good vapour permeability
- Wear resistance (quartz fillers)
- Resistance to atmospheric stress
- High durability of shades

SPEKTRA Facade Acryl



SPEKTRA Facade Acryl is an environmentally friendly paint made on the basis of an aqueous dispersion of polymeric binders and is one of the most commonly used facade paints for both residential homes and larger buildings.

- High level of water resistance
- Good vapour permeability
- Wide selection of colour shades
- High durability of shades
- Resistance to wet scrubbing
- Resistance to atmospheric stress

SPEKTRA Facade Standard



SPEKTRA Facade Standard is suitable for coloring all types of mineral and dispersion plasters, fiber-cement and wood-cement boards, concrete and coating old dispersion coatings.

- High water retention
- Color that is diluted in water, acceptable for health and the environment
- Resistant to weather influences and harmful industrial atmosphere
- Resistant to wet wiping

Instructions for use

The surface should be free from dust, loose particles and other impurities. We recommend cleaning with water pressure washing or steam. Any loose old coats should be removed, to reach the solid surface. Rough and uneven surfaces should be smoothed using a material with a similar composition to the surface itself (mortar or cement mortar), and allowed to dry thoroughly. With old facades made from mineral plasters, all parts that are peeling off must be mechanically removed and replaced with new ones. Before painting (renovation) already painted surfaces, the suitability, firmness and adhesion of the old coatings must be checked. Prior to painting, the surface should be dry and firm. Facade paints should not be applied in rain, fog or strong wind. In sunny weather, the facade should be shaded in order to avoid uneven drying, as this affects the coating quality. Prior to painting, mix well and thin with water according to the instructions. Apply with a brush or roller.

Coating system

Impregnation	Finishing coat
1 × SPEKTRA Impregnation Acryl Special or 1 × SPEKTRA Impregnation Acryl	2 × SPEKTRA Top Dry
1 × SPEKTRA Impregnation Acryl Special or 1 × SPEKTRA Impregnation Acryl or 1 × SPEKTRA silicone impregnation	2 × SPEKTRA Renoxan
1 × SPEKTRA silicone impregnation	2 × SPEKTRA Facade Silicone
1 × SPEKTRA silicone impregnation or 1 × SPEKTRA Impregnation Acryl Special or 1 × SPEKTRA Impregnation Acryl	2 × SPEKTRA Facade Siloxane
1 × SPEKTRA Impregnation Acryl Special or 1 × SPEKTRA Impregnation Acryl	2 × SPEKTRA Facade Universal
1 × SPEKTRA Impregnation Acryl Special or 1 × SPEKTRA Impregnation Acryl	2 × SPEKTRA Facade Acryl

Choosing a facade paint that does not fade over time

Recently, architects and users have noticed darker, especially grey shades becoming more popular. When choosing the ideal shade of façade paint or finishing thin-layer plaster, the choice of tinting pastes is crucial to ensure adequate stability. Unlike interior wall paint, façade paint is exposed to various weather factors such as sun, rain, heat and cold, which makes it more vulnerable to fading.

When choosing the pastes used in tinting façade paint, you should consider the difference between organic and inorganic pigments. The main differences are in coverage, purity, and weather and UV stability. The structure of inorganic pigments provides much better weather and UV stability, they are usually opaque and less soluble than organic pigments. Their biggest advantage is their resistance to fading, which is extremely important for façade paints.

However, with the recent development of inorganic pigments, their colour range now includes not only pastels but also more vivid hues. The formulation of Helios products for façade paints and plasters reflects the fact that tinting pastes made with the HGMIX mixing system only contain inorganic pigments with the highest degree of sunlight- and weather-defying durability.

