SPEKTRA Concrete Protect

AREA OF APPLICATION

For the protection and decoration of concrete and other cement and lime surfaces. It is suitable for wall and floor surfaces that are exposed to low stress. It is used for painting concrete floors in basements, boiler rooms and other spaces. It is suitable for painting plinths and other exterior concrete surfaces.

PROPERTIES

- single-component, water-soluble
- easy to apply
- CO_2 impermeability
- resistant to water absorption
- good mechanical and chemical resistance (fuel oil, motor oil, water solution of salt, usual cleaners)
- easy maintenance

TECHNICAL DATA

COMPOSITION	acrylate copolymer, pigment, fillers and special additives in water
COLOUR SHADES	white and 5 standard colour shades
TINTING	Intermixing of colour shades in any ratio is possible **HGMIX**
DENSITY	1,25 – 1,35 kg/l
WATER ABSORPTION W_{24} (EN 1062-3:2008)	0,039 kg/m^2 h^{0,5} (classW_3, low water uptake)
VAPOUR PERMEABILITY s_d (EN ISO 7783:2012)	0,33 m (class V_2, medium water vapour permeability)
ADHESION to concrete	2,35 N/mm^2
GLOSS	matt
THINNING	with water up to 5 %
EU VOC category and limits	IIA(i), 140 g/l (2010); the product contains: max. 90 g/l
PACKAGING UNITS	standard colour shades: 0.65 l, 4 l, 10 l (grey-RAL 7040, white) **HGMIX**: 2 l, 4 l
SHELF LIFE	The shelf life of an originally sealed and suitably stored product (temperature ranging from +5 °C to +35 °C, in a dry place) is indicated on the packaging. DO NOT FREEZE!

INSTRUCTIONS FOR USE

APPLICATION METHOD	roller, brush, spraying
WORKING CONDITIONS	The paint, air and surface temperature should be at least +5 °C.
DRYING (T = +20 °C, rel. humidity 65%)	Dry and suitable for subsequent application after 8–12 hours.
COVERAGE	Theoretically: for a two-layer application 3–4 m^2 z 1 l. Actual consumption depends on the absorbency and roughness of the surface.
CLEANING TOOLS	With water, immediately after use.

SURFACE PREPARATION

As floor surfaces are exposed to high wear, the quality preparation and painting of the surface are very important. The surface must be cured, dried thoroughly and protected against the capillary penetration of vapour (hydroinsulated). The surface should be free from dust, poorly bonded particles, oils, grease, traces of tyres 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. Very smooth surfaces should be sanded.

On already painted surfaces, check the adhesion of old coats. Old coatings that have weak adhesion and are loose should be removed completely. If the adhesion of old coats is good, these should be sanded before painting in order to improve permeability.

Uneven surfaces and surface damages should be smoothed with a suitable levelling compound. If the concrete is damaged to the very armature, it should be removed, the reinforcement sanded to metal gloss and protected with a quality corrosion protection coating. Damaged areas should be filled using a suitable levelling compound.

Prior to the first painting, new concrete surfaces should be at least one month old and dry, with a maximum of 3 % moisture in the concrete.

Apply **SPEKTRA Sanitol** to concrete surfaces contaminated with mould, fungi, lichen or algae, prior to painting. Once the walls are dry, remove the mould mechanically. The procedure may be repeated multiple times, depending on the degree of contamination.

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Salt linings (saltpeter) are removed by brushing and the surface is impregnated with **SPEKTRA deep impregnation**, which blocks the penetration of water-soluble salts in the surface.

COATING SYSTEMS

The systems listed in the table below are examples for the preparation and protection of different surfaces. Prior to the application of an individual system, a thorough check of and expert opinion on the condition of the object, as well as possibly testing the proposed protection on the object, are all required.

SUBSTRATE	SUBSTRATE PREPARATION	IMPREGNATION	TOP COAT
Unpainted concrete - new - old, not chalked	cleaning, removal of loose particles, repair of damaged areas	1x **SPEKTRA Impregnation Acryl Special / SPEKTRA Impregnation Acryl**	2x **SPEKTRA Concrete Protect**
- old, very chalked		1x **SPEKTRA deep impregnation**	
Painted concrete - undamaged coatings - damaged coatings		1x **SPEKTRA Impregnation Acryl Special / SPEKTRA Impregnation Acryl**	
Lime - cement plasters		1x **SPEKTRA Impregnation Acryl Special / SPEKTRA Impregnation Acryl**	
Fiber cement, wood cement and other non-porous surfaces		1x **SPEKTRA deep impregnation**	

NOTES AND SPECIAL FEATURES

- Mix the paint well before use.
- If the paint is thinned more than recommended, its hiding power decreases.
- Drying time increases at lower temperatures and higher air humidity.
- If the surface is not permeable (damaged coatings), impregnation will not penetrate the surface and forms a shiny, separated coat (the consequence is poor paint adhesion). Prior to impregnation and painting, the surface should be sanded.
- **SPEKTRA Concrete Protect** is not recommended for the painting of horizontal concrete surfaces, which can hold water for a longer period.
- Prior to impregnation and painting, the concrete should be sanded.

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