



SPEKTRA 2K epoxy paint for concrete

USE

For the protection and decoration of concrete and other cement surfaces, suitable for the floor and wall surfaces. It is used for the painting of wall surfaces in tunnels and floors in the food industry, laboratories, garages, workshops and warehouses, if due to wear there is no need to lay high resistance industrial pavings.

CHARACTERISTICS

- Two-component, water thinnable
- CO₂ impermeability
- Resistance to water absorption
- High mechanical and chemical resistance (fuel, motor oil, solvents, thinned acids and bases, usual cleaners)
- Low dirt absorption
- Easy maintenance

TECHNICAL DATA	
PRODUCT TYPE	epoxy resin, polyamine hardener
COLOUR SHADES	white
TINTING	mixing of colour shades in optional ratio
DENSITY	component A: 1,40 ± 0,02 kg/l; component B: 1,1 ± 0,02 kg/l
MIXING RATIO	1 : 1 (by weight)
POT LIFE	3 h (at 20°C)
WATER ABSORPTION W ₂₄	0,019 kg/m ² h ^{0,5}
WATER VAPOUR PERMEABILITY s _d	>1,4m
ADHESION to concrete	3,5 N/mm ²
GLOSS	shiny (70 – 85%, angle 60°)
THINNING	with water up to 10%
EU VOC category and limits	Component A: IIA(j), 140 g/l (2010); the product contains: max. 54 g/l Component B: IIA(j), 140 g/l (2010); the product contains: max. 82 g/l
PACKAGING	10 kg, 20 kg
SHELF LIFE	The shelf life of the originally closed and suitably packed product (temperature from +5°C to +35°C, in dry place) is until the date indicated on packaging. IT SHOULD NOT FREEZE!

INSTRUCTIONS FOR USE	
APPLICATION	roller, brush
WORKING CONDITIONS	temperature of paint, air and surface minimum +12°C, relative air humidity maximum 80%
DRYING (T = +20°C, rel. hum. 65%)	dry and suitable for overcoating after 24 h, walkable after 3 days, drivable after 1 week
COVERAGE	theoretical: 3 – 4 m ² with 1 kg in 2 coats Practical coverage depends on permeability and roughness of the surface.
CLEANING OF TOOLS	immediately after use with water

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 dry, cured and protected against capillary penetration of vapour (hydroinsulated). Remove all crumbly particles, powder, oils, grease and other impurities. We recommend vapour washing under pressure. The concrete surfaces, which are deeply soaked with grease, oils e.c. can not be sufficiently cleaned, therefore we recommend to remove them and renovate. Very smooth surfaces should be sanded.

Check the adhesion of the old coats in the already painted surfaces. Remove completely old coats, which have worse adhesion and fall off. If the adhesion of old coats is good, sand them before painting in order to improve permeability.

Smoothen irregularities and surface damages with an adequate sealing compound. In case concrete is damaged to the reinforcement, remove concrete, sand the reinforcement to metal gloss and protect with a quality corrosion protection coating. The damaged spots should be laid with the suitable sealing compounds.

Prior to the first painting, new concrete surfaces should be at least one month old.



COATING SYSTEMS

In the table below, the stated systems are the examples of the possible preparation and protection of different surfaces. Before the application of a definite system, the facility or object should be checked thoroughly and estimated, if possible, the proposed protection should be tested on the surface.

SURFACE	SURFACE PREPARATION	IMPREGNATION	TOP COAT
<u>Not painted concrete</u> - new	cleaning, removal of crumbly particles, repair of damaged spots	/	2x SPEKTRA 2K epoxy paint for concrete
- old, not chalked		1x SPEKTRA deep impregnation	
<u>Painted concrete</u> - undamaged coatings		/	
- damaged coatings		/	

REMARKS AND SPECIFICS

- Mix paint thoroughly before use.
- If the paint is thinned more than recommended, the coverage of the coating decreases.
- At the lower temperatures and higher air humidity, the drying time will prolong.
- In case the substrate is not permeable (the damaged coatings), the substrate should be sanded before painting.
- We do not recommend **SPEKTRA 2K epoxy concrete paint** for the painting of horizontal, concrete surfaces, where water may remain for a longer period.
- Pot life of the prepared paint is approx. 3 h at 20°C, at higher temperatures the pot life is shorter.
- Prior to painting, humidity in concrete approx. 2 cm deep should not exceed 4 – 5 % by weight, cement stone floors may contain maximum 3,5 % humidity by weight.