

# 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
- CO<sub>2</sub> 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, one standard shade
TINTING	intermixing of colour shades in any ratio is possible
DENSITY	component A: 1,45-1,55 kg/l; component B: 1,05-1,15 kg/l
MIXING RATIO	1 : 1 (by weight)
POT LIFE	3 h (at 20 °C)
WATER ABSORPTION W <sub>24</sub> (EN 1062-3:2008)	0,002±0,0001
WATER VAPOUR PERMEABILITY s <sub>d</sub> (EN ISO 7783:2012)	19,3 ± 2,0 m
ADHESION to concrete	3,5 N/mm <sup>2</sup>
GLOSS	Glossy (70 – 85 %, angle 60°)
THINNING	with water up to 10 %
EU VOC category and limits	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 %, maximum substrate humidity 3%.
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 <sup>2</sup> 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
<b>Not painted concrete</b> - new - old, not chalked	cleaning, removal of crumbly particles, repair of damaged spots	1x <b>SPEKTRA deep impregnation</b>	2x <b>SPEKTRA 2K epoxy paint for concrete</b>
<b>Painted concrete</b> - 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 nonabsorbent (the undamaged coatings), the substrate should be sanded before painting.
- The concrete must be roughly sanded and milled before impregnation.
- 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 should not exceed 4 –5 %

