Waterborne epoxy floor coating

Product Description

EPOLIT SW is environment-friendly, matt, low-odour, abrasion resistant, water dilutable, 3-part epoxy floor coating.

Uses

EPOLIT SW is primarily intended for the protection of concrete surfaces against mechanical and chemical attacks. It can withstand light to medium heavy conditions of exploiting thanks to its physical and chemical characteristics. It is resistant to salts, diluted acids and lyes as well as oils, fuel, heating oil. It can be applied to relatively fresh concrete bases, when the process of concrete maturing has not yet been completed and the percentage of humidity is still high. EPOLIT SW is used in chemical, food, pharmaceutical, electronic, textile and other kinds of industry.

- Production and processing areas, workshops
- Sport facilities
- Breweries, cold storage plants, shops, warehouses
- Laboratories, hospitals
- Printing shops, car services
- Rooms for storing chemicals
- Dairies, slaughterhousess

Advantages

- Excellent chemical resistance
- Good mechanical resistance
- Resistance to impacts
- Environment-friendly
- Water vapour permeable
- Easy washing and cleaning
- Decorative appearance with matte finish
- Water dilutable
- Fast building-in
- Long life
- No joints
- Big choice of colours

Certificate

Report of quality No. UIV – 160/09 Institute IMS, Belgrade
SRPS Z.S2.240 Road markings - Requirements for thinfilm material and application.
SRPS G.S2.613 Plastics - Determination of compressive properties of thermosetting plastics.
SRPS G.S2.614 Plastics - Bending test.
SRPS G.S2.620 Plastics - Determination of water absorption.
SRPS G.S2.622 Plastics - Determination of the effects of liquid chemicals, including water.
SRPS H.C8.060 Paints and Lacquers. Film resistance to impact determining.
SRPS ISO 868 Plastics and ebonite – Determination of indentation hardness by means of a durometer (Shore hardness).
SRPS EN ISO 4624 Paint and varnishes - Pull-off test for adhesion.

TEHNICAL SPECIFICATIONS

Colour

Decorativeness of this product is revealed through a great choice of colours and shades. Lower gloss or matt finish. See RAL Chart.

Storage and Shelf Life

6 months minimum in unopened package stored in a dry place at temperature over +15°C. Protect from freezing.

Packaging

Exactly definite irretriable package for 17,45 kg of the finished mixture
Part A : Part B : Part C = 1,45 kg : 12,00 kg : 4,00 kg.
Form and size of a set can be done according to your requests.

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Density, g/cm³	**Part A**	1,479
	Part B	1,006
Volume Mass of Bound Material, g/cm³		1,708 (after 7 days)
Compressive Strength, N/mm²		43,5 (after 7 days) 48,7 (after 28 days)
Flexural Strength, N/mm²		20,7 (after 7 days) 23,2 (after 28 days)
Adhesive Strength, N/mm²		>5,0 (Concrete failure)
Abrasion Resistance, mg		38 ((weight Taber Index)
Hardness, Sh D		D / 1:79(after 7 days) D / 1:81(after 28 days)
Chemical Resistance		See Chemical Resistance Table of EPOKSAN Products
Impact Resistance		There is no cracking while a wight falls from the height of 100 cm (weight mass 1000 g, gauge diameter 20 mm)

Work Conditions

☼ Room temperature: min. 10°C, max. 25°C.

☼ Substrate temperature: min +10°C.

☼ Relative air humidity: below 85%.

☼ The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.
☼ In the course of work protect floor from direct influence of sun rays and prevent the room ventilation.

Waiting time between aplication/Overcoating

12–24 hours (depending on exterior temperature).

Drying time

	+10° C	+20°C	+30°C
Ready for foot traffic	2 days	1 day	12 hours
Lightly Serviceable	3 days	2 daya	1 day
Fully Serviceable	10 days	7 days	5 days

Necessary Tools and Preparation

Paint roller, spiked roller, notched trowel, squeegee, filling knives, a brush, low speed electric stirrer (300-400 rpm), scales (20-30 kg), industrial vacuum cleaner, floor duster, vessel for mixing (V=30/40 l), clogs with nails.

INSTRUCTIONS FOR USE

Primer + Coating

1 – 2 x PRAJMER W+ 1x EPOLIT SW

Material Consumption

About 5,0–5,5 kg/m2 for floor thickness of 3mm.
(The values are not in effect for porous, uneven, too blotting bases and material scattering).

Substrate Quality

The substrate must be clean, dry or damp and free of all contaminants such as dirt, oil,grease, coatings and surface treatments, etc. New concrete substrate should age at least 14 days before being coated. The concrete substrate must be compact, a minimum degree of roughness, even (max. Unlevelling ± 1 mm/m), without cement laitance, cracks and badly adhered parts. The hydroisolation should be done in underground rooms. The concrete substrate must be of sufficient compressive strenght (minimum 25 N/mm2) with a minimum pull off strength of 1.5 N/mm^2.

Substrate Preparation

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the range of EPOKSAN materials. The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. grinding. Before application of layers all dust and loose materials must be completely removed by brushes or a vacuum cleaner.

Surface Priming

PRIMER W part A and PRIMER W part B join in a suitable vessel in the delivered mixing ratio and mix by electric stirrer. Add 70% water in relation to A+B and again stir well. Immediately after mixing primer do surface impregnation of concrete by paint rollers and/or brushes.
After a couple of hours, in case the primed surface gets dry appearance of a light colour, priming must be repeated partially or completely. Avoid puddles on the surface with the primer.
For compact concrete substrates (required quality) primering is sufficient in one coating with the consumption of primer from 0,30-0,40 kg/m2. Prepared primer shuld be built-in in the course of half an hour.
Apply the coating after the priming coat has dried tack-free all over.

Final Layer Making

Prior to mixing stir Epolit SW part B mechanically in the original pail, and after that join with Epolit SW part A in a vessel of a corresponding volume (30-40 l) and mix it by electric stirrer (300-400 rpm). While mixing slowly add Epolit SW part C and homogenize the mass. The whole process of homogenization lasts several minutes. The parts should be obligatorily mixed in the above mentioned the mixing ratio i.e. in the mixing ratio they are packed in. After mixing the mass is poured on the concrete surface, spread evenly by means of a notched trowel (blade size: 4 mm or 5 mm) to the thickness of 3 mm. Roll immediately in two directions with a spiked roller to ensure even thickness and to remove entrapped air. Final layer application in a not-suggested thickness may have consequences to the functionalism and aesthetic appearance. The mass that was in the vessel should always obligatory be mixed before pouring. The mixed mass is built-in in the course of half an hour.

CAUTION

Freshly applied layer of Epolit SW must protect from humidity, condensation, water and heavier chemical and mechanical loads, 7 days at least.

Tool cleaning

Tools should be washed in solvent or water immediately after use.

SAFETY REGULATIONS AND SAFETY AT WORK

The use of safety and personal protective equipment is obligatory. Observing the fire fighting measures is required. The physical, safety-technical and ecological data and regulations in work with chemical materials, as well as storage and waste removal must be observed.

STATEMENT ON LIMITED LIABILITY

All information mentioned in this technical sheet have been transferred faithfully and conscientiously and they are based on our knowledge. The final appearance of the floor coating and its physicalchemical characteristics depend on careful preparation, building-in and conditions of the substrate to which we have no influence. The obligation in the warranty period is limited to the quality of the delivered goods. In cases of important building enterprises or if there are problems you are to ask advice from our technical service.

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