

"Rizopur™ -4120"

Self-leveling polyurethane flooring

TU 2257-045-43548961-2006

Description	Two-component, solvent free, low viscosity colored composition based on polyurethane resin.
Application	It is used in the system of floor covering "Rizokon™" for floor coverings with smooth surfaces and specific requirements for flatness. Used at the enterprises of light industry, food, tobacco, electronics and pharmaceutical industries, agricultural production, engineering facilities, real estate, housing and communal services, as well as logistic centers, sport complexes, the auto-repair enterprises, mail terminals, car wash and closed parking . In manufacturing, warehouse, office, freezing, wet, technical and other types of premises. It is used to cover the surfaces of mineral-based: - Concrete; - Cement-sand screed; - Stone.
Advantages	- Resistant to temperature extremes; - Resistant to the crack opening at the base to 0.8 mm; - Forms a smooth glossy surface; - Hygiene; - Good chemical resistance; - High wear resistance; - Easy to use (apply); - Odorless;
Certificates	- Sanitary-Epidemiological Conclusion of the Federal Service for Supervision of Consumer Rights Protection and Human Welfare No. 77.99.34.225.D.004720.06.06 dd. 02.06.2006. - Fire Safety Certificate No. SSPB.RU. OP078. V00014 dd. 10.12.2007.
Application system	The system of floor covering "Rizokon™" 1. <i>Primer.</i> Primer "Rizopox™ -1100" (A + B) - 0.3 - 0.4 kg / sqm 2. <i>Face layer.</i> "Rizopur™ - 4120" - 2.0 - 3.0 kg / sqm <i>In the rigid-flexible system of coating ("Rizokon™")</i>
Restrictions	If there is a danger of capillary rise of groundwater to the base (humidification) make waterproofing or vapor barrier. - Moisture content in the coating process is no more than 4%. - The strength of the base in compression is not less than 200 kgf / cm ² . - The strength of the base at break is at least 1.5 MPa. - The concrete base (cement-sand screed) must be not less than 28 days. - Maximum allowable slope is 3%. - Minimum foundation temperature during coating is + 12 ° C. - Maximum foundation temperature during coating is +25 ° C. - Relative humidity is no more than 70%. - Foundation temperature should be 3 ° C higher than the measured dew point. - On the adjacent surface you should apply the material of the same lot number, because otherwise there may be slight variations in color.
Surface preparation	The surface must be intact, clean, dry (humidity not more than 4%), surface should be free from laitance, dirt, oils and contain no fragile and sticky particles. The strength of the base in compression at least 200 kgf / cm ² . For its preparation it is necessary to apply methods such as grinding, milling or shot blasting. Prepared surface should be carefully primed by Rizopox™ -1100, so to fill the pores. If the primer is absorbed into the base, it is necessary to apply it repeatedly in order there is no more dry places. Primer is not sprinkled with sand. Prior to coating the porous areas, sinks, potholes, cracks, differences places (roughness) of the foundation must be repaired and leveled with filler.
Mixing	Open the bucket with a component A and stir it into the original container with the slow-speed (300-450 rev. / Min) electric drill with a screw nozzle for 2 minutes. Open the bucket with a component B, pour it all into a container of the component A and mix for 2 minutes by the electric mixer. Pour into another container and stir it for 1 minute. Allow to the prepared composition to stand for 2-3 minutes before applying.
Application	Pour the composition on the prepared foundation and spread it on the surface with thickness of 1.4-2.0 mm with a serrated spatula or other tool (one bucket of the composition for 8-12 m ²). Apply the material from the side opposite to exit. For better air removal and a even thickness treat the surface with the spiked roller in 10-15 minutes after application. Avoid intervals in application for more than 15-20 min. Otherwise; it may be formed visible border.

Technical data

Color	According to the color catalogue RAL.
Packaging (A+B)	-25kg

Physical data	
Density at +20C	Component A+B (State Standard 28513-90) -1.37±0.1g/cm3
Dynamic viscosity at +20C	Component A+B (State Standard 18249-72*) + 3-5 Pa c
Reaction capability	<u>+15 °C +20°C +25°C</u>
	<u>Lifetime (1 kg)</u> Component AB 40 min. 30 min. 20 min.
	<u>Hardening time</u> You can walk after 3 days. 2 days. 1.5 days.
	Full mechanical load 10 days. 7 days. 5 days.
	Chemical effects 20 days. 14 days. 10 days.
Fire-technical features (with quartz sand in ratio 1:3)	Combustibility Group (State Standard 30244-94) G1;
	Flammability group (State Standard 30402-96) B2;
	Group of flame distribution (State Standard R51032-97) RP1
	Smoke-forming ability (State Standard 12.1.044-89) D2;
	Toxicity of combustion products (State Standard 12.1.044-89) T1;
Mechanical properties (14 days and nights at +20C)	Strength at break, not less (State Standard 11262-80) - 6.5 MPa
	Relative elongation at break than (State Standard 11262-80) - 70% no less
	Adhesion of the coating in the separation from the concrete not less than (State Standard 28574-90) - 2 MPa
	Abrasion (State Standard 13087-81), g / cm ² - 0,02

Chemical resistance	It is resistant to water, alkalis, mineral oils, gasoline, alcohols, dilute acids. A detailed list - see Table of chemical resistance.
Storage	Store in a dry place at temperatures between +5 ° C to +30 ° C. Avoid direct exposure to sunlight. Tanks with a partially-used material should be tightly closed. Do not allow freezing.
Warranty period	6 months from the date of producing under recommended storage conditions in original packaging.
Safety measures	This product may cause irritation on sensitive skin of people. Before you start work, apply protected cream to exposed skin. You must use protective clothing, gloves and glasses. If the composition or its components accidentally fall into the eyes, respiratory organs or skin, rinse immediately with warm water and consult a physician. The material is a fire hazard - no smoking allowed, working with on- firing and using electric heaters near the place of the material storage and manufacturing operations. When working in the enclosed spaces it is important to ensure appropriate ventilation during application and drying. In the liquid condition the components A and B can contaminate water sources, they can not be discharged into sewage drains and ponds, as well as inadmissible their penetration into the soil.
Tool cleaning	In order to remove uncured material from tools please use an organic solvent. Hardened composition can only be removed mechanically. Wash hands and non-protected areas of the skin with soap and water.

The information contained herein is based on a generalized technical and practical experience. Due to the inability to control the conditions of application of the material, affecting the process, Producer does not accept legal and other responsibility rising for the misuse or interpretation of this information. Specifications of material and equipment provided here are subject to change without prior notice.

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