

**"Rizopur™ -5201. PurCem"**

Self-leveling polyurethane-cement flooring with high chemical resistance

TU 2257-043-43548961-2006

<b>Description</b>	Self-leveled three-component colored composition based on water emulsion of the polyurethane resins and functional filler.
<b>Application</b>	It is used in the system of floor covering " <b>Rizokon</b> "™ for <b>chemically resistant coatings</b> with high thermal stability. Used in food, pharmaceutical, chemical and light industries, agricultural production, engineering facilities, housing and communal services. In the manufacturing plants, laboratories, freezers, as well as in technical, warehouses and other types of premises. It is used to cover the surfaces of mineral-based: - Concrete; - Cement-sand screed; - Stone.
<b>Advantages</b>	- Forms a smooth, matte non-slip surface; - High chemical resistance; - High strength; - High thermal stability (depending on thickness); - Good resistance to abrasion and scratching; - Applied to damp foundation; - Easy to lay - Odorless; - Possible outdoors application
<b>Certificates</b>	- Sanitary-Epidemiological Conclusion of the Federal Service for Supervision of Consumer Rights Protection and Human Welfare No. 77.99.34.225.D.004724.06.06 dd. 02.06.2006 - Fire Safety Certificate No. SSPB.RU. OP078. V00011 dd. 10/12/2007
<b>Application system</b>	<b>The system of floor covering "Rizokon"™</b> 1. Primer <b>Primer "Rizopox"™ -1301W</b> +25% of water. - 0.2- 0.3 kg/m2 (consumption is indicated without water) 2. The front layer. <b>"Rizopur-5201.PurCem"</b> (A+B+C) + 1 L water -6.0 - 12.0 kg/m2 (3-6 mm)
<b>Restrictions</b>	If there is a danger of capillary rise of groundwater to the ground it is necessary to make waterproofing. - Moisture content ≤ 6%; - There should be no still water or drops of dew on the surface; - The strength of the base is not less than 200 kg/cm2; - The strength of the base on the separation is at least 1.5 MPa; - The maximum allowable slope is 3%. - Minimum foundation temperature during coating is +10 ° C. - Maximum foundation temperature during coating is +25 ° C. - Relative humidity is no more than 80%. - Foundation temperature should be 3 ° C higher than the measured dew point; - Operating temperature range at a thickness of 3-4 mm is +100 ° C; - Operating temperature range at a thickness of 8-9 mm is +140 ° C; - Maximum thickness of the coating in a single layer is no more than 5 mm; - Minimum thickness of the coating in a single layer is not less than 3 mm; - Colors can be changed under the influence of sunlight on the green and gray color.
<b>Surface preparation</b>	The surface must be intact, clean, surface should be free from laitance, dirt, oils and contain no fragile and sticky particles. Apply methods such as grinding, milling or shot blasting for its preparation and then dedust the surface. Prepared surface should be carefully primed by Rizopox™ -1301W, so to fill all the pores. If the primer is absorbed into the base, it is necessary to apply it repeatedly in order to have no more dry places. Prior to coating the porous areas, sinks, potholes, cracks, differences places (roughness) of the foundation must be repaired and leveled with repair compositions based on epoxy resins Rizopox™ - 3500 / Rizopox™ - 4400, filled with calcined quartz sand Rizodek™. <b>Warning:</b> On the perimeter of all bearing and enclosing structures (walls and columns), along the canals, gutters, pits, etc., card of concrete casting it is necessary arrangement of the technological slit. Maximum allowable size of the "card" of the technology slits is 3x3 m. Depth of the technological slit should be 6-8mm, width - 5 mm. Along with the coating composition the seam is filled with fresh "Rizopur™ -5201. PurCem", cover is arranged " <b>fresh on fresh</b> ". The time between the filling-up of the

	technological slits and laying must not exceed 10 minutes at a temperature of the foundation +20 ° C.
<b>Mixing</b>	Open the can of with a component A, and then pour into a clean container. Open the can with a component B, pour it in full to the container with the component A and thoroughly mix for 2-3 min by slow-speed (300-450 rev. / min) electric drill with a screw nozzle, then the prepared mixture was added 1 liter of water, and mix again. In the mixture (A + B + water), add the component C, thoroughly mix for 2-3 minutes until homogenous mass (no lumps). Pour the composition to another container and stir it for 1 minute. If necessary, mix component C in the clean container in a dry state before adding to the mixture for 2-3 minutes.
<b>Application</b>	Pour the composition on the prepared foundation and spread it evenly on the surface of the necessary thickness by the serrated spatula, scraper or other appropriate tool. Apply the material to the side opposite to the exit. Treat the surface by the deaeration roller (with spikes) for better air removal and even thickness. Roller pressure should be minimal at the covering processing by the deaeration roller. You must not do interruptions in the applying more than 5 - 10 min. Otherwise, it may form visible border.

### Technical data

<b>Color</b>	Dark gray, reddish-brown, green, yellow
<b>Packaging (A+B+C)</b>	-40 kg

Physical data																													
<b>Density at +20C</b>	Components A+B+C is not normalized																												
<b>Viscosity of the composition at +20C</b>	Components A+B+C -190-240 mm (flowability of the composition on ring flow: State Standard 310.3-76)																												
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<b>Fire-technical features</b>	Combustibility Group (State Standard 30244-94) G2; 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;
<b>Mechanical properties (7 days and nights/20C)</b>	Breakdown voltage - 43 MPa in compression, no less (State Standard 310.4-78) Strength in bending, not less (State Standard 310.4-78) - 15 MPa Adhesion of the coating in the separation from the concrete - 2 MPa not less than (State Standard 28574-90) Abrasion, no less (State Standard 13087-81) - 0.15 g / cm2
<b>Chemical resistance</b>	It is resistant to water, alkalis, mineral oils, gasoline, alcohols, dilute organic and non-organic acids.
<b>Storage</b>	Store in a dry place at temperatures between +10 ° C to +30 ° C. Store Component C at a relative humidity no more than 60%. Avoid direct exposure to sunlight. The tanks with the partially-used material should be tightly closed. <b>Do not freeze.</b>
<b>Warranty period</b>	6 months from the date of production under recommended storage conditions in original packaging.
<b>Safety measures</b>	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. 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.
<b>Tool cleaning</b>	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.

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