

"Rizopur™ -5203. PurCem"

Highly filled coating with high chemical resistance on the polyurethane-cement base for hand and machine laying

TU 2257-044-43548961-2006

Description	Three- component, rigid-plastic colored composition based on water emulsion of the polyurethane resin and functional filler.
Application	<p>It is used in the system of floor covering "Rizokon"™ for chemically resistant coatings with a smooth surface that can withstand the mechanical stresses of moderate intensity.</p> <p>Used in constructing and reconstructing industrial and civil buildings of different purposes, including enterprises of light, food, pharmaceutical, chemical industries, engineering facilities, agricultural production and housing and communal services.</p> <p>It is used to cover the surfaces of mineral-based:</p> <ul style="list-style-type: none"> - Concrete; - Cement-sand screed; - Stone.
Advantages	<ul style="list-style-type: none"> - Forms a smooth semi-matt slightly rough surface; - High chemical resistance; - High temperature resistance - up to 180 ° C (depending on the thickness of the coating); - High strength; - Good resistance to abrasion and scratching; - Applied to damp foundation; - Odorless; - Allowed to use outdoors; - May be applied to the inclined surfaces (floors with different slope, ramps, etc.)
Certificates	- Sanitary-Epidemiological Conclusion of the Federal Service for Supervision of Consumer Rights Protection and Human Welfare No. 77.99.34.225.D.004722.06.06 dd. 02.06.2006
Application system	<p>The system of floor covering "Rizokon"™</p> <p>1. Primer Primer "Rizopox"™ -1301W +25% of water. - 0.2- 0.3 kg/m² (consumption is indicated without water)</p> <p><i>Powder.</i> By quartz sand fractions 0.4-0.8 mm - 0.4 - 0.5 kg / sqm</p> <p>2. The front layer. "Rizopur-5203.PurCem" (A+B+C) -11.0 - 17.6 kg/m² (5-8 mm)</p>
Restrictions	<ul style="list-style-type: none"> - If there is a danger of capillary rise of groundwater to the ground it is necessary to make waterproofing or vapor sealing. - 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; - Minimum thickness of the coating in a single layer is no more than 5 mm; - Colors can be changed under the influence of sunlight on the green and gray color.
Surface preparation	<p>The surface must be intact, clean, the surface should not contain still water, 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. After it dedust the surface. Prepared surface should be carefully primed, so to fill all 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. Sprinkle the primed surfaces with the calcined quartz sand of the fraction 0.4 -0.8 mm immediately after the application.</p> <p>Prior to coating the porous areas, sinks, potholes, cracks, differences places (roughness) of the foundation must be repaired and leveled with the filler. Warning: 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 joint. Depth of the joint should be 8-10mm, width is 8-9 mm. When the coating joint is filled with fresh "Rizopur™ -5203. PurCem" composition, the covering is arranged "fresh on fresh".</p>
Mixing	Open the can of with a component A, 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. To the prepared mixture (A + B), add the component C, thoroughly mix for 2-3 minutes until homogenous mass (no lumps). If necessary, mix component C in the clean container in a dry state before adding to the mixture for 2-3 minutes.
Applying	Pour the composition on the prepared foundation and spread it evenly on the surface of the necessary thickness by the scraper with a "shield" or other appropriate tool. Apply the material to the side opposite to the exit. You must not do interruptions in the applying more than 10 -15 min. Otherwise, visible border may form. In 10 minutes after laying perform the primary processing by the power trowel HE / HB 500. In 25-30 minutes after primary grouting perform reprocess by the machine HE / HB 500. At the grouting surface it is recommended to treat the site with a uniform velocity and without stopping.

Technical data

Color	Dark gray, reddish-brown, green, yellow		
Components ratio	A: B: C: As per weight	1: 1.17 : 10.1	
Packaging (A+B+C)	-70 kg		

Physical data																					
Density at +20C	Components A+B+C -2.2 g/cm3																				
Viscosity of the composition at +20C	Components A+B+C -190-240 mm (flowability of the composition on ring flow: State Standard 310.3-76)																				
Reaction capability	<table border="1"> <thead> <tr> <th></th> <th>+15 °C</th> <th>+20°C</th> <th>+25°C</th> </tr> </thead> <tbody> <tr> <td><u>Lifetime (1 kg)</u> Component A+B+C</td> <td>25 min.</td> <td>20 min.</td> <td>10 min.</td> </tr> <tr> <td><u>Hardening time</u> You can walk after</td> <td>3 days.</td> <td>2 days.</td> <td>1 day.</td> </tr> <tr> <td>Full mechanical load</td> <td>7 days.</td> <td>5 days.</td> <td>3 days.</td> </tr> <tr> <td>Chemical effects</td> <td>14 days.</td> <td>10 days.</td> <td>7 days.</td> </tr> </tbody> </table>		+15 °C	+20°C	+25°C	<u>Lifetime (1 kg)</u> Component A+B+C	25 min.	20 min.	10 min.	<u>Hardening time</u> You can walk after	3 days.	2 days.	1 day.	Full mechanical load	7 days.	5 days.	3 days.	Chemical effects	14 days.	10 days.	7 days.
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Mechanical properties (14 days and nights/+20C)	Breakdown voltage - 45 MPa in compression, not less than (State Standard 310.4-78) Strength in bending, not less than (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) - 0.14 g / cm2																				

Chemical resistance	It is resistant to water, alkalis, mineral oils, gasoline, alcohols, dilute organic and non-organic acids.
Storage	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. Do not freeze.
Warranty period	6 months from the date of issue 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. 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.

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