

## "Rizopox™ - 4610L"

Epoxy paint with solvent content

TU 2257-008-43548961-2002

<b>Description</b>	Two component, low viscosity, colored compound, with a low content of the solvent-based epoxy resin.
<b>Application</b>	<p>In coating system "Rizokon™" as a surface layer or as a protection of concrete and cement surfaces.</p> <p>The enterprises of light industry, food, tobacco, electronic and pharmaceutical industries, agricultural production, engineering facilities, real estate, housing and communal services, as well as logistic centers, sport complexes, the auto-repair businesses, post terminals and closed parking garages.</p> <p>In manufacturing, warehouse, office, technical and other types of premises.</p> <p>It is used to cover the surfaces of mineral-based:</p> <ul style="list-style-type: none"><li>- Concrete;</li><li>- Cement-sand coupling;</li><li>- Stone.</li></ul>
<b>Advantages</b>	<ul style="list-style-type: none"><li>- good hardening at temperature from -5 C.</li><li>- Fire-technical specifications can be used to cover all degrees of fire resistance of buildings, including on the escape routes, lobbies, elevators cold-crystals, stairwells, in the common corridors, hallways and lobby, premises of F5 of categories A, B and C (according to SNR 21-01-97 "Fire safety of buildings and structures");</li><li>- High resistance to abrasion, resistance to scratching;</li><li>- High chemical resistance;</li><li>- Operating temperature from -20 ° C to +60 ° C;</li><li>- Ease of cleaning;</li><li>- Ease of application;</li><li>- Efficiency (low consumption).</li></ul>
<b>Certificates</b>	<ul style="list-style-type: none"><li>- Sanitary-Epidemiological Conclusion of the Federal Service for Supervision of Consumer Rights Protection and Human Welfare around Tula region No.71.TU.04.225.П.000002.01.09 dd. 11.01.2009</li><li>- Conformance Certificate No.C-RU PB37.B.00444 issued by "Fire Center" LLC dd.05.04.2011</li></ul>
<b>Application</b>	<p><b>"Rizokon™. Thin smooth "</b></p> <ol style="list-style-type: none"><li>1. <i>Primer</i> "Rizopox™ - 1100", "Rizopox™-1100L" - 0.3 - 0.4 kg / sqm</li><li>2. <i>Covering</i> "Rizopox™ - 4610L" - 2-3 layers of 0.15-0.25 kg / sqm</li></ol> <p>As the facial layer</p> <ol style="list-style-type: none"><li>1. Preparation of the base / base layer. Materials of the mark "Rizopox™» - the thickness of 1-4 mm</li><li>2. Facial layer. "Rizopox™ - 4610L" Depending on the type of covering - 2-3 layers of 0.1-0.2 kg / sqm</li></ol>
<b>Limitations</b>	<ul style="list-style-type: none"><li>- If there is a danger of capillary rise of groundwater to the base (humidification) it is necessary to make waterproofing or vapor barrier.</li><li>- Moisture content in the coating process is no more than 4%.</li><li>- Strength of the base in compression is not less than 200 kgf / cm.</li><li>- Strength of the base on the separation is at least 1.5 MPa.</li><li>- Concrete base (cement-sand coupling) prior to the application must be at least 28 days.</li><li>- Minimum substrate temperature during coating is 5 ° C.</li><li>- Maximum substrate temperature during coating is +10 ° C.</li><li>- Relative humidity is no more than 85%.</li><li>- Substrate temperature should be 3°C higher than the measured dew point.</li><li>- When operating in the street may change color (yellowing) covering.</li><li>- Maximum consumption during application for 1 layer is no more than 0.3 kg / sq.m.</li><li>- When using light colors (RAL 1015, 1001, 3012, 7032, etc.) hiding ability of the material is less. Necessary to increase the consumption till 0.5-0.6 kg / m<sup>2</sup>.</li><li>- When using of non-standard colors RAL, to determine the actual distribution of progress, have control drawing of the material.</li><li>- Materials of one lot number should be applied on adjacent surfaces, otherwise may have slight variations in color, gloss and structure.</li></ul>

<b>Preparation of surface</b>	<p>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 is at least 200 kgf / cm. For its preparation it is necessary to apply methods such as grinding, milling or shot blasting and then it is necessary to dedust surface. The prepared surface should be thoroughly primed so as to fill all the pores. If the primer is absorbed into the ground, it is necessary to apply it repeatedly to have no dry places.</p> <p>If it is foreseen by design cover, the primed surfaces immediately after application sprinkle by calcined quartz sand.</p> <p>Prior to coating the porous areas, sinks, potholes, cracks, place drops (roughness) of the foundation must be repaired and leveled with putty.</p>
<b>Mixing</b>	<p>Open the bucket with a mixing component A and stir it into the original container with slow-speed (300-450 rev./min) electric drill with a screw nozzle. Open the bucket with component B, pour it all into a container of the component A and mix thoroughly stir for 2 minutes with slow-speed (300-450 rev./min) electric drill with a screw nozzle. Pour the compound in a clean container and stir it for 1 minute.</p>
<b>Applying</b>	<p>Compound is applied by roller with length of pile 8-12mm, rolling in all directions to obtain a <b>uniform</b> thickness.</p> <p>When applying the material at a rate of more than 200 g. / sq. m probably segregation by color and formation of lighter stripes, spots, especially on dark colors.</p> <p>Applying of the material should be from the side opposite to the exit. It is not allowed to make breaks in deposition of more than 15-20 minutes. Otherwise, you might were formed the visible boundary. It is not recommended to take a break between the layers more than 24 hours</p>

#### Technical data

Color	According to the catalogue of the colors RAL		
Package (A+B)		-	25 kg
		-	10 kg

#### Physical data

<b>Density At 20°C</b>	Component A+B, (State Standard 28513-90)	- 1,40 ± 0,05 g/cm <sup>3</sup>		
<b>Conditional Viscosity At 20°C</b>	According to type of viscometer B3-4 (State Standard 8420-74)	- 30-60		
<b>Mass fraction f non volatile matters</b>	(State Standard 12.1.014 - 84*)	- 75%		
<b>Reaction ability</b>		-5°C	+5°C	+10°C
	<u>Lifetime (1 kg) Component A + B</u>	50 min	40 min	20 min
	<u>Curing time You can walk</u>	24 hours	16 hours	12 hours
	Full mechanical operational load	7 days	5 days	3 days
	Chemical effects	14 days	10 days	7 days

<b>Fire and Flammability Characteristics</b>	<p>Group of flammability (State Standard 30244-94)</p> <p>Group of flame propagation (State Standard 30402-96)</p> <p>Group of inflammability (State Standard P51032-97)</p> <p>Smoke-forming ability (State Standard 12.1.044-89)</p> <p>Toxicity of combustion products (State Standard 12.1.044-89)</p>	<p><b>Г1</b></p> <p><b>В2</b></p> <p><b>ПП1</b></p> <p><b>Д2</b></p> <p><b>Т1</b></p>
<b>Mechanical properties (14 days/+20°C)</b>	<p>Adhesion of the coating at separation from concrete not less (State Standard 28574-90) (greater than the strength of concrete in tension)</p> <p>Compared hardness by pencil method</p> <p>Abrasion, g / cm<sup>2</sup> (State Standard 20811, Method B)</p>	<p>2 MPa</p> <p>HV-V</p> <p>0,0024</p>
<b>Chemical resistance</b>	<p>It has a chemical resistance to water, alkalis, mineral oils, gasoline, resistance alcohols, dilute acids.</p> <p>A detailed list - <b>see Table of chemical resistance.</b></p>	

<b>Storage</b>	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. It is not allowed to freeze components during transportation.
<b>Warranty period</b>	Warranty 6 months of the manufacture date, taking into account storage conditions in their original packaging time.
<b>Security measures</b>	Product may cause irritation in people with sensitive skin. Before you start work, apply protective cream on open areas of the skin. You must use protective clothing, gloves and glasses. If the composition or its components accidentally fall into the eye, respiratory or skin, rinse immediately with warm water and seek medical advice. Components A and B are flammable - no smoking allowed, to work with on-fire and indoor use electric heaters near the place of storage materials and manufacturing operations. When working in closed areas it is important to ensure adequate ventilation during application and drying. In the liquid condition these components A and B can contaminate water sources, they cannot 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 it is recommended to use organic solvent. Frozen composition can only be removed mechanically. Wash hands and non-protected areas of the skin with warm water and soap.

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