

## "Rizopox™ - 4400"

Epoxy compound for leveling of concrete bases

TU 2257-034-43548961-2004

<b>Description</b>	Two-component, solvent free, colored composition based on epoxy resin.
<b>Application</b>	<p>In coating system "<b>Rizokon™</b>" (as the base layer or putty) with total thickness of 2.0-5.0 mm., resistant to mechanical stress of moderate and significant intensity in the constructing and reconstructing of industrial and civil buildings for various purposes, including: the enterprises of light industry, food, electronic, pharmaceutical, engineering facilities, agriculture, housing and communal services.</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>- Can be used at low temperatures.</li><li>- High mechanical strength.</li><li>- Ease of preparation and application.</li><li>- Cost effectiveness.</li><li>- Solvent free</li><li>- Has no seams and joints.</li></ul>
<b>Certificates</b>	- Sanitary-Epidemiological Conclusion of the Federal Service for Supervision of Consumer Rights Protection and Human Welfare No.77.99.34.225.Д.011360.09.07 dd. 26.09.2007.
<b>Application</b>	<p><b>The system of floor covering "Rizokon™"</b></p> <p>1. Primer. <b>Primer "Rizopox™ - 1100" (A+B)</b> - 0.3 - 0.4 kg / sq.m Powder by calcined quartz sand 0.4 mm - 0.5 kg / sq.m fraction depends on construction.</p> <p>2. Base layer (1 or 2 layers) <b>Covering "Rizopox™ - 4400" (A+B)</b> - 1.2 - 1.4 kg / sq.m Filled with a 25-30% calcined quartz sand fraction of 0.1-0.4 mm. (Using fr.0, 8 ÷ 1,4 to backfill) Filling with calcined quartz sand - 3.5 - 4.5 kg / sqm fraction of 0,1 ÷ 0,4 / 0,4 ÷ 0,8 / 0,8 ÷ 1,4 mm.</p> <p>3. Facing layer. Depending on chosen construction covering.</p>
<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<sup>2</sup></li><li>- Concrete base (cement-sand covering) must be at least 28 days.</li><li>- Maximum allowable slope is 3%.</li><li>- Minimum substrate temperature during coating is + 5°C.</li><li>- Maximum substrate temperature during coating is +15°C.</li><li>- Relative humidity is no more than 80%.</li><li>- Substrate temperature should be 3°C higher than the measured dew point.</li></ul>

<b>Preparation of surface</b>	<p>The surface must be intact, clean, dry (humidity is 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. After that it is necessary to dedust surface.</p> <p>The prepared surface should be thoroughly primed by "<b>Rizopox™ - 1100</b>" 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. Prime surfaces after 15-20 min. After applying sprinkle by required calcined quartz sand fraction (depending on the chosen design). Prior to coating the porous areas, sinks, potholes, cracks, place drops (roughness) of the foundation must be repaired and leveled with putty "<b>Rizopox™ - 4400</b>".</p>
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<b>Mixing</b>	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 component A and mix thoroughly re-stir for 2 minutes. When using sand fraction 0.8-1.4 mm in filling it is necessity at continuous stirring pour into compound 6-7kg calcined quartz sand fraction of 0.1-0.4mm. Stir it for 2-3 minutes. Pour the compound in a clean container and stir it for 1 minute.
<b>Applying</b>	<p>Pour this compound on the prepared surface and spread it on the surface with thickness 1.2-1.4 mm with the help of serrated spatula (profile type "48") or other tool. Use of the material on the side opposite to the exit.</p> <p>For better removal of air and getting a uniform thickness treat surface by spiked roller after 10-15 minutes after applying. After 15-20 minutes. after application to fill uniformly the surface by calcined quartz sand fraction of 0,1 ÷ 0,4 / 0,4 ÷ 0,8 / 0,8 ÷ 1,4 mm. Not allowed to take breaks in the deposition of more than 20-30 minutes. Otherwise, it may be formed visible border.</p> <p>Before applying the next layer sweep away excess of the sand, clean the surface by metal scraper or sandpaper of grit size, dedust by industrial vacuum cleaner.</p> <p>Ensure that the time between the applications layer do not exceed 48 hours in the opposite case interlayer adhesion will worse. If this time is exceeded, then before the application of compound the coating must be polished, dedusted and primer "Rizopox™ - 1100" should be applied.</p>

#### Technical data

Color	Grey, green, light brown (sand), and blue. Shade is not standardized.
Package (A+B)	- 25 kg

#### Physical data

<b>Density At 20°C</b>	Component A+B, (State Standard 28513-90)	- 1,46 ± 0,03 g/cm <sup>3</sup>
<b>Dynamical Viscosity At 20°C</b>	Component A+B, (State Standard 18249-72*)	- 3,8 ± 0,5 Pa s

<b>Reaction ability</b>		+5°C	+15°C	+25°C
	Lifetime (1 kg) Component A + B	50 min	30 min	15 min
	Curing time You can walk	36 hours	16 hours	18 hours
	Full mechanical operational load	7 days	5 days	4 days
<b>Mechanical properties (14 days/20°C)</b>	Breakdown voltage in compression, not less (State Standard 4651-82) Tensile strength, not less (State Standard 11262-80) Elongation at Break, not less than (State Standard 11262-80) Adhesion of the coating in the separation of the concrete not less than (State Standard 28574-90)			-60 MPa  -20MPa -3%  -2 MPa
<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>	<p>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.</p> <p>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.</p> <p>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.</p>			

<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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