

"Rizopoks-3381 EpoCem"

Self-leveling epoxy cement flooring

TU 2257-059-43548961-2009

Description	Three-component, self-leveling colored compound water-based dispersion of epoxy resin and functional filler.
Application	<p>In the application of coating systems "Rizokon"™ used as moisture, leveling layer and topcoat. Allows laying of the traditional polymer-coatings on the fresh and wet concrete, cement and sand base.</p> <p>It is used in the construction and reconstruction of industrial and civil buildings for various purposes, including: the enterprises of light industry, food, pharmaceutical, chemical industry, mechanical engineering, agriculture, housing and communal services.</p> <p>It is used to cover the surfaces of cement-based:</p> <ul style="list-style-type: none">- Concrete;- Cement-sand coupling;
Advantages	<ul style="list-style-type: none">- High moisture resistance;- Good adhesion to wet concrete;- Fast curing;- Coefficient of thermal expansion similar to concrete;- High resistance to temperature extremes;- Shortening the work commencement from 28 to 5 days;- Possibility of placing traditional epoxy and polyurethane coatings for wet concrete after 2 days after use of Rizopox-3381 EpoCem;- Traditional technology of material laying;- Odourless;- Outdoor application
Certificates	Sanitary-Epidemiological Conclusion of the Federal Service for Supervision of Consumer Protection and Human Welfare No.71.TTS.04.225.P.000599.07.09 dd. 31.07.2009
Application system	<p><i>Application system:</i> <i>Use as a leveling layer of protective coating</i></p> <p>1. <i>Primer</i> "Rizopox-3381 EpoCem" Components A + B - 0.15 - 0.2 kg / sq.m</p> <p>2. <i>Protective leveling layer, components A + B + C</i> "Rizopox-3381 EpoCem" - 3.3 - 6.6 kg / sq m (1.5-3mm)</p> <p>3. <i>Covering</i> <i>According to the project</i></p> <p><i>As a topcoat</i></p> <p>1. <i>Primer</i> "Rizopox-3381 EpoCem" Components A + B - 0.15 - 0.2 kg / sq.m</p> <p>2. <i>Protective leveling layer, components A + B + C + Colour</i> "Rizopox-3381 EpoCem" - 3.3 - 6.6 kg / sq m (1.5-3mm)</p>
Restrictions	<ul style="list-style-type: none">- There should not be still water, drops of dew on the surface;- Do not add water to ready-mix;- Age of the concrete base is at least 5 days;- Availability of waterproofing;- Foundation strength as for separation is at least 1.5 MPa (28 days);- Maximum allowable slope - 3%.- Minimum substrate temperature during coating - + 12°C.- Maximum substrate temperature during coating - 25°C.- Relative humidity is no more than 80%.- Foundation temperature should be 3°C higher than the measured dew point.- Maximum thickness of the coating in a single layer is no more than 3 mm;- Minimum thickness of the coating in a single layer is at least 1.5 mm;- Further coating allowed at moisture Rizopox EpoCem-3381 is no more than 4% (approximately 2 days)

Surface preparation	<p>The surface must be intact, clean and free of still water, surface should be free from laitance, dirt, oils and contain no fragile and sticky particles. For its preparation it is necessary to apply methods such as grinding, milling. After that it is necessary to dedust surface. Prepared surface must be carefully 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>Prior to coating the porous areas, sinks, potholes, cracks, place drops (roughness) of the foundation must be repaired and leveled with putty. Putty composition may be prepared by adding "Rizpoks-3381EpoCem (A + B + C)" calcined silica sand of 0.1-0.4 mm fraction in the proper correlation between 1:1 to 1:2.5 parts.</p>
Mixing	<p><i>For priming:</i> Shake well and open a can with component A, then strain into a clean container, shake and reveal the canister with component B, pour it into a container of component A, mix with an electric mixer (300-450 rev./min).</p> <p><i>For the protective leveling layer:</i> Shake well and open a bucket with component A, then strain into a clean container. Shake well and open the component in the bucket, pour it into a container with component A and mix with an electric mixer (300-450 rev./min). Then, in the mixture (A + B) add a component C and mix until intimate mixture (no lumps). Pour into another part of container and stir it for 1 minute. If necessary, before adding to the mixture, the component C mix in a clean container in a dry form.</p> <p><i>For a topcoat:</i> Shake and open a bucket with component A, then strain into a clean container. Shake well and open the component in the bucket, pour it into a container with component A and mix by electric mixer (300-450 rev./min). Open the bucket with colour, stir and pour into a container with components A and B and mix by electric mixer (300-450 rev./min). Then, in the resulting colored mixture (A + B) add a component C and mix until intimate mixture (no lumps). Pour into another part of container and stir it for 1 minute. If necessary, before adding to the mixture, stir with a component in a clean container in a dry form.</p>
Applying	<p><i>For a primer:</i> To obtain a uniform layer this material should be applied with the help of brush or roller. During application and curing to ensure adequate ventilation to prevent violations of the curing and drying process. When applied to the concrete of a high-density the penetrating ability of the material decreases, so the excess of the primer must be removed by dry roller.</p> <p><i>Warning: during the use of the material please check the use time of a compound. The end of the lifetime occurs without clearly visible external manifestations!</i></p> <p><i>For leveling and protective topcoat:</i> Pour a compound on the prepared base and spread it on the surface with the required thickness by serrated spatula, scraper or other suitable tool. Use of the material on the side opposite to the exit. For better removal of air and getting a uniform thickness treat surface by deaerating roller (with spikes). During processing of the layer by deaerating roller the pressure on roller should be minimal. Not allowed to take breaks in the deposition of more than 10-15 minutes. Otherwise, it may be formed visible border.</p>

Technical data

Color	<p>For the protective leveling layer, grey color. For a topcoat according to the selected color.</p>
Package	<p><i>For a primer</i> canister (A) - 5 kg canister (B) - 5 kg</p> <p><i>For the protective leveling layer:</i> bucket (A) - 2 kg bucket (B) - 2 kg sack (C) - 24 kg</p>

	<u>For a topcoat:</u> bucket (A) - 2 kg bucket (B) - 2 kg color - 0.4 kg. sack (C) - 24 kg
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Physical data

Density At 20°C	Component A+B+C	- 2.1 -2.2 g/cm ³		
Viscosity	Component A+B+C (mobility of the mixture according to the ring flow: State Standard 310.3-76)	- 210-240 mm		
Reaction ability		15°C	20°C	25°C
	<u>Lifetime (1 kg)</u> Component A + B + C	90 min.	70 min.	45 min.
	<u>Curing time</u> Ability to processing and coatings laying	2 days	1 day	1 day
	Full mechanical operational load	14 days	10 days	7 days
Mechanical properties (14 days/20°C)	Failing stress at compression, not less (State Standard 310.4-78) Flexural strength, not less (State Standard 310.4-78) Adhesion of the coating at concrete separation, not less than (State Standard 28574-90)			-40 MPa -12MPa -2 MPa
Storage	Store in a dry place at temperatures between +10 ° C to +30 ° C. Component C should be stored at relative air moisture not less than 60%. Avoid direct exposure to sunlight. Tanks with a partially-used material should be tightly closed. <i>It is not allowed to freeze components A and B.</i>			
Warranty period	Warranty 6 months of the manufacture date, taking into account storage conditions in their original packaging time.			
Security measures	Product may cause irritation in people with sensitive skin. It is necessary to wear protective clothing, gloves and glasses. If covering "Rizopox EpoCem-3381" or its components accidentally fall into the eye, respiratory or skin, rinse immediately with warm water and seek medical advice. 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.			
Cleaning	In order to remove uncured material from tools it is recommended to wash it with clean water. Frozen composition "Rizopox EpoCem-3381" can only be removed mechanically. Wash hands and non-protected areas of the skin with warm water and soap.			