

ANTI-KOROZIN BR

Synthetic resin and solvent based anti-corrosive coloured coating for protection of concrete surfaces

Compliant to EN 1504-2 (as a protective coating), 1.3 (C) – surface protection against ingress, method 2.2 (C) – moisture control, method 8.2 (C) – increased resistance.

FIELD OF APPLICATION

It is used for anti-corrosive and decorative finish of new, old and repaired concrete surfaces. It is recommended for structures exposed to weather impacts, ice, salts, as well as mild chemical aggression: reinforced-concrete bridges, retaining walls, reinforced-concrete façade elements, silos, industrial facilities, factories, tunnels, port facilities, etc.

PROPERTIES

One-component uniform viscous liquid;
Excellent adhesion to substrate;
Prevents the process of carbonisation;
Resistant to ice, salt, saline water, and other atmospheric impacts;
Resistant to oil and petroleum products;
Waterproof;
Vapour permeable;
Non-toxic (when cured);
UV stable;
Resistant to bacteria;
Easy to apply;
Easy to maintain.

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	-	Paste-like coloured compound
Density	EN ISO 2811-1	(1.55 – 1.65) g/cm ³
Time interval between two layers at temperature of 20 - 25°C		3-4 h
Vapour permeability	ISO 7783	Class I, SD < 5 m
Capillary absorption	EN 1062-3	< 0.1 kg/(m ² ·h ^{0.5})
Adhesive strength (bond)	EN 1542	≥ 2 MPa
Thermal compatibility (freezing/thawing with de-icing salts)	EN 13687-1	≥ 2 MPa
Co ₂ permeability	EN 1062-6	SD>50m

METHOD OF APPLICATION

1. SUBSTRATE PREPARATION

Antikoroziin BR should be applied on a substrate made of concrete or cement mortar. The substrate should be sound, clean, grease-free and dust-free. The maximum permitted moisture level of the substrate is 7.0%,

and the temperature of the substrate should be $>5^{\circ}\text{C}$, whereas the ambient temperature should range between 5°C and 35°C .

The concrete substrate, on which Antikoroziin BR is to be applied, should be at least 14 days old. If Antikoroziin BR is to be applied on a concrete substrate that already has (an old and existing) coating, then the stability of this coating should be tested and it should have a bond strength ≥ 1.0 MPa. If they do not have the required bond strength, the existing coatings should be removed mechanically or by sandblasting until a sound concrete substrate is obtained that will allow for a strong bond to be established with the newly applied coatings of Antikoroziin BR. It should not be applied on existing water-based coatings.

During the first 24 hours following the application of the coating, it is necessary to protect it against rain, ice, strong draught and dust.

2. APPLICATION AND CURING

Application is carried out in two layers by using a brush or a paint roller, or mechanically by spraying until achieving the desired appearance. The material for the first layer should be thinned by adding 5 – 8% of Solvent P (Rastvoruvac P) and they should be mixed together with a slow mixer until a completely uniform mixture is obtained. The material for the following layers can be thinned up to 5% by adding Solvent P (Rastvoruvac P). The time interval between the application rounds of the different layers is 4 hours at temperature of 20°C . Each new coating should be applied perpendicularly (90°) to the previous coating. During the application of Antikoroziin BR, treated surfaces should be protected against rain and strong draught for a period of up to 24 hours.

Mechanical application:

- pressure (150 - 200) bars
- jet (nozzle) 6.35; 7.45;
- spraying angle: under angle of 60° - 90° to the substrate and at a distance of 20 – 40cm.

CONSUMPTION

for one layer: 0.25-0.30 kg/m²

for two layers: 0.45-0.50 kg/m²

CLEANING

The tools and equipment should be cleaned with SOLVENT P (RASTVORUVAC P) immediately after use.

PACKAGING

In metal containers of 4 and 20 kg.

STORAGE


In a dry area, in original, closed packaging, at temperature between 5°C and 35°C , protected from exposure to direct sunlight and freezing, away from sources of heat/sparks.

Shelf life: 9 months.

STANDARD COLOURS

RAL 7032, RAL 9003.

CE MARKING

 2032	
ADING AD Skopje Novoselski pat (Str. 1409) no. 11, 1060 Skopje, North Macedonia 17 GGCE0XX/6 EN 1504-2:2004 ANTIKOROZIN BR Anticorrosive coating for surface protection of concrete against ingress and for moisture control	
Vapour permeability:	Class I, sD < 5 m
Capillary absorption:	w < 0.1 kg/m²· h^{0,5}
Thermal compatibility Part 1: Freezing/ thawing with de-icing salts	Bond strength after 50 freezing/thawing ≥ 2 N/mm²
Bond strength by pull-off adhesion test:	≥ 2 N/mm²
CO2 permeability:	SD>50m
Fire reaction:	Euroclass F
Dangerous substances:	Properties not determined

Health hazards: The product contains reactive ingredients, which if unbound, may have an adverse health effect. When handling the product it is mandatory to use protective equipment: gloves, goggles, respiratory mask. Avoid contact of the product with the skin. In case of accidental contact, wash immediately with water and soap. If the material splashes into the eyes, rinse them immediately with plenty of water and seek medical attention. If swallowed, immediately seek medical attention.

Fire: Antikorozin BR and Rastvoruvac P (Solvent P) contain flammable ingredients. Keep away from open fire. Smoking during application is prohibited.

Cleaning and disposal: Loose residues of Antikorozin BR should be cleaned with Rastvoruvac P (Solvent P). The old and used packaging should be disposed of in accordance with local rules and regulations for that type of waste.

We recommend that the method of application and the necessary quantities should be adjusted to the conditions on site, as well as mandatory use of appropriate equipment.