

# ANTI-KOROZIN BB

*Acrylate-based anti-corrosive coloured coating for protection of concrete surfaces.*

*Compliant to EN 1504-2, method 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 coloured compound;
- Excellent adhesion to substrate;
- Prevents the process of carbonisation;
- Waterproof;
- Vapour permeable;
- Non-toxic;
- Easy to apply;
- Resistant to bacteria;
- Decorative – available in a variety of colours;
- Resistant to ice, salt, saline water, atmospheric impacts and aging;
- Easy to maintain;
- Excellent coverage.

## TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	-	coloured paste-like compound
Density	EN ISO 2811-1	(1.4 – 1.5) g/cm <sup>3</sup>
Time interval between two layers at temperature of 20 -25°C	/	12 h
Vapour permeability	ISO 7783	Class I, SD < 5 m
Capillary absorption	EN 1062-3	< 0.1 kg/(m <sup>2</sup> ·h <sup>0.5</sup> )
Adhesive strength (bond)	EN 1542	≥ 1.5 MPa
Thermal compatibility (freezing/ thawing with deicing salts)	EN 13687-1	≥ 1.5 MPa
CO <sub>2</sub> permeability	EN 1062-6	SD>50m
Reaction to fire	EN 1350 -1	Class B-S1, d0

## METHOD OF APPLICATION:

### 1. SUBSTRATE PREPARATION

Antikorozin BB is applied on a substrate made of concrete, reinforced concrete, cement mortar, etc. The substrate should be sound, clean, grease-free and dust-free, and without unstable areas on the surface where the coating is to be applied. Maximum permitted moisture of the substrate is 7.0%, and the ambient and substrate temperature should range between 5°C and 35°C.

The concrete substrate, on which Antikorozi BB is to be applied, should be at least 14 days old. If the concrete surfaces have segregations, damages or pores, they should be repaired with Reparatur Malter F (Repair Mortar F).

In order to achieve ideally smooth concrete surfaces, they should be skimmed with Reparatur Glet or Hidroglet F, which should be allowed to set for at least 3 days at temperature of 20°C prior to applying the finish coatings.

If Antikorozi BB is to be applied on a concrete substrate that already has coatings (old existing coatings), then the stability of the existing coatings should be tested and it should have an adhesion strength  $\geq 1.0$  MPa. If not, the existing coatings should be removed mechanically or by sandblasting, until obtaining a sound concrete substrate which will enable a strong bond with the newly applied coatings of Antikorozi BB.

## 2. APPLICATION AND CURING

Application is carried out by using a paint roller (two or three layers) or a brush (two or three layers) or by using an airless spray until achieving the desired appearance. For the first layer, the material should be thinned by adding 5% to 10% water and mixing it together with a slow mixer until a completely uniform mixture is obtained. The second layer should be applied without thinning, once the first layer has completely dried (min. 12 hours at temperature of 20°C). The second layer should be applied perpendicularly (90°) to the first coating. The applied layers of Antikorozi BB should be protected against rain and strong draught for a period of 24 hours.

For mechanical application, the following conditions should be applied:

- pressure (150-200) bars
- spraying angle: at an angle of 60° -90° to the substrate and at a distance of 20-40cm

## CONSUMPTION

Application by brush or paint roller:

for one layer: 0.20 – 0.25 kg/m<sup>2</sup>

for two layers: 0.40 – 0.50 kg/m<sup>2</sup>

## CLEANING

The tools and equipment should be cleaned with water immediately after use.

## PACKAGING

In plastic buckets of 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.


Shelf life 12 months.

## STANDARD COLOURS

RAL 7032; RAL 7046; RAL 7047; RAL 9003.

Note: Part of the remaining RAL colours is available upon request for orders of at least 90 kg.

## CE MARKING

 2032	
<b>ADIND AD Skopje</b> <b>Novoselski pat (Str. 1409) no. 11, 1060</b> <b>Skopje, North Macedonia</b> <b>13</b> <b>GGCB0XX/7</b> <b>EN 1504-2:2004</b> <b>ANTI-KOROZIN BB</b> <b>Anticorrosive coating for surface protection of concrete</b> <b>against ingress and for moisture control</b>	
<b>Vapour permeability:</b>	<b>Class I, SD &lt; 5 m</b>
<b>Capillary absorption:</b>	<b>w &lt; 0.1 kg/m<sup>2</sup>·h<sup>0.5</sup></b>
<b>Thermal compatibility</b>	<b>Bond strength after 50</b>
<b>Part 1:</b>	<b>freezing/thawing</b>
<b>Freezing/ thawing</b>	<b>cycles</b>
<b>with de-icing salts</b>	<b>≥ 1.5 N/mm<sup>2</sup></b>
<b>Bond strength by pull-off adhesion</b>	<b>≥ 1.5 N/mm<sup>2</sup></b>
<b>test:</b>	
<b>CO<sub>2</sub> permeability:</b>	<b>SD &gt; 50m</b>
<b>Fire reaction:</b>	<b>Euroclass B</b>
	<b>Class B-S1,d0</b>
<b>Dangerous substances:</b>	<b>Properties not determined</b>

**Health hazards:** Avoid contact of the product with skin and eyes, as well as direct inhalation. In case of accidental contact with the skin, immediately remove it by using water and soap. If the material splashes into the eyes, rinse them immediately with plenty of water and seek medical attention. If swallowed, seek medical attention.

**Fire:** The release of dangerous substances in case of fire, not determined.

**Cleaning and disposal:** Loose residues of Antikorozin BB should be cleaned with water. Old and used packaging should be disposed of in accordance with the local rules and regulations for that type of waste.

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