

ADINGPOKS 1B

*Two component epoxy coating for surface protection of concrete exposed to mechanical and chemical impacts
In compliance with EN 1504-2: 1.3(C); 2.2(C); 5.1(C); 6.1(C); 8.2(C)*

FIELD OF APPLICATION

Epoxy coating for final protection and decoration of concrete surfaces in: laboratories, warehouses, garages, parking lot levels, food industry, hospitals, schools, shopping malls, tunnels. It is recommended as final coating in rooms, where high hygiene standards are required, in case of chemical aggression, high resistance to abrasion or similar.

Adingpoks 1B is used for the waterproofing system for bridge constructions together with quartz sand and bitumen strip waterproofing.

With long-term exposure to UV radiation, the coating may change the colour.

PROPERTIES

- High adhesion;
- High resistance to diluted acids, bases, dilutions of salts and mineral oils;
- Carbonization protection of the concrete;
- Watertight;
- Non- toxic when cured;
- Resistant to bacteria;
- Decorative – available in different colors;
- Easy maintenance.

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	visual	colored paste
Mixing ratio	-	7,0:1,0
Density	EN ISO 2811-1	A component - 1,6-1,7g/cm ³ B component - 1,00-1,05g/cm ³
Adhesion to the substrate	EN 1542	≥ 2MPa
Water absorption	EN 1062-3	w≤0,1kg/m ² h ^{1/2}
Water vapour permeability	EN ISO 7783	class III Sd>50m
Permeability to CO ₂	EN 1062-6	Sd>50m
Abrasion resistance	EN ISO 5470-1	< 3000mg
Impact resistance	EN ISO 6272-1	class I ≥4Nm
Resistance to severe chemical attack (petrol, diesel, motor oil, 10%CH ₃ COOH, 20%H ₂ SO ₄ , 20%NaOH; 20%NaCl)	-	class II, reduction in Shore hardness ≤ 50%
Reaction to fire	EN 13501-1	Class C - s1,d0
Open time on 20°C	-	30-45min
Touch dry on 25°C	-	5h
Period between two layers, on 25°C	-	24h
Hardness after 7 days, on 25°C (Shored D)	ISO 868	45-55
Substrate and air temperature during the application	-	5-35°C
Relative air humidity	-	< 70%
Mechemical use, on 20°C	-	after 3 days
Chemical use (including water contact), on 20°C	-	after 14 days
Temperature stability	-	stable

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METHOD STATEMENT

SUBSTRATE PREPARATION

The substrate for application must be sound, dry, clean, free of dust, grease and condensate. For industrial flooring it must be waterproofed, in order to prevent separation of the final coating as a consequence of negative hydrostatic pressure. The moisture of the substrate must be lower than 7%, the temperature during the application between 5-35°C and the relative air humidity must be lower than 70%, to prevent condensation on the substrate for application. The application on substrate with water condensate can result with unequally change of the coating colour, lose the gloss or show spotting. Despite these negative effects the physical and chemical characteristics of the coating would not change.

New concrete substrate

Concrete must be cured at least 28 days, the compressive strength must be over 25MPa and the structural substrate moisture must be less than 7%. Cement laitance, mortar, stains of paint and grease must be removed. Finally the substrate should be cleaned of dust using industrial vacuum cleaner.

Old concrete substrate

The cement laitance should be removed mechanically. Penetrated grease and dirt into the substrate should be removed using detergents or special agents. All cracks and damages of the substrate must be repaired using suitable repair materials.

Old epoxy substrate

The surface should be treated with sandpaper and it must be clean of dust using industrial vacuum cleaner.

APPLICATION

Before applying Adingpoks 1B is recommended to apply pre-coating Adingpoks 1P or 1PV (for substrates with higher moisture). Apply the primer by squeezing it into the substrate using fur roller.

Mix A and B component of Adingpoks 1B separately 2-3 minutes using slow mixer (up to 400 rotations/minute). Then add B component into A and mix until it homogenize. The application of the epoxy coating must be applied during the pot life of the product (30-45 min counting of the moment when the components are mixed together).

The application is intended to be in two or three layers, using brush, short fiber paint roller or by spraying. Apply the second layer on firm first layer, 24h after the application of the previous layer, on temperature of 20°C. The temperature of the substrate must be between 5-35°C and the moisture lower than 7%.

CONSUMPTION

Adingpoks 1P: 0.2-0.30kg/m²

Adingpoks 1B, one layer: 0.15-0.20kg/m²

Adingpoks 1B, two layers: 0.30-0.40kg/m²

CLEANING

Clean tools and equipment right after the application, using Solvent P.

PACKAGING

Sets A+B: 24kg

A component: 21kg

B component: 3kg

STORAGE


In the original, closed packaging, placed in dry rooms at temperature between 10°C and 30°C. The product must not be exposed to direct sunlight and freezing. Shelf life: 9 months.

STANDARD COLOURS

RAL1001, RAL1015, RAL3012, RAL5024, RAL6019, RAL6021, RAL7004. RAL7032, RAL7035, RAL7045, RAL9002.

Note: The remaining RAL colours are available for orders over 90kg.

CE MARKING

 2032	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 18 GOAA0XX/8 EN 1504-2:2004 ADINGPOKS 1B Anti-carbonation epoxy coating for surface protection of concrete and improved physical and chemical resistance	
Adhesion strength by pull-off test	≥ 2,0 N/mm²
Capillary absorption and permeability to water	w < 0,1 kg/m²·h^{0,5}
Permeability to water vapour	Class III, S_D > 50 m
Permeability to CO ₂	S_D > 50m
Abrasion resistance	< 3000 mg
Impact resistance	Class I ≥ 4 Nm After loading, no cracks, no delamination
Resistance to severe chemical attack	Class II: 28 days without pressure ≤ 50% reduction in Shore hardness after treatment in test liquids: petrol; diesel and motor oil; 10% CH₃COOH; 20% H₂SO₄; 20% NaOH; 20% NaCl
Reaction to fire	Class C –s1, d0
Dangerous substances	No performance determined

Health hazards: Avoid contact of the product with skin and eyes, as well as direct inhalation when you mix the components. In case of accidental contact, the product should be removed immediately with dry towel or mildly wetted towel with Solvent P. Then, wash the spot with pure water and soap. If the material has been splashed into eyes, immediately rinse it with pure water and call for medical help. Ventilate the room where you use resins and solvents.

Fire: The product is not flammable.

Cleaning and disposal: Loose residues of Adingpoks 1B are cleaned with Solvent P. The old and used packing should be discarded in accordance with the local relevant regulations.

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.