

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)*

FILED OF APPLICATION

Epoxy coating for protection and decoration of final 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. This coating offers high performances in protection of carbonization, freezing, salts and abrasion in traffic, railway and hydro technical tunnels.

Adingpoks 1B is used for the waterproofing system for bridge constructions together with quartz sand and bitumen strip waterproofing. The epoxy coating Adingpoks 1B withstands the thermal changes during the application of the bitumen strip waterproofing as well as the application of the asphalt.

PROPERTIES

- Excellent adhesion;
- High resistance to abrasion;
- High mechanical resistance;
- High resistance to chemical aggression;
- 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;
- Simple application;
- 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/ bond strength by pull-off test	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%
UV	-	unstable
Reaction to fire	EN 13501-1	Class C - s1,d0
Open time on 20°C	EN 12189	30-45min
Pot life	EN ISO 9514	85-115min

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Touch dry on 25°C	-	5h
Period between two layers, on 25°C	-	24h
Hardness after 7 days, on 25°C	ISO 868	51 Shore D
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

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

In order to achieve an excellent adhesion to the substrate, it must be sound and clean. 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 materials.

Old epoxy substrate

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

APPLICATION

In case of very porous substrate 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 (30-45min 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 thickness of one layer is recommended to be between 100-150µm. The temperature of the substrate must be between 5-35°C and the moisture lower than 7%.

CONSUMPTION

Adingpoks 1P: 0.2-0.35kg/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: 5.15kg
A component: 4.5kg
B component: 0.65kg

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 (ulica 1409) br.11, 1060 Skopje, North Macedonia 17 2032 - CPR - 11.5D	
EN 1504-2:2004 ADINGPOKS 1B Coating for surface protection and improvement of concrete Two component epoxy coating	
Adhesion strength by pull-off test:	≥ 2,0MPa
Capillary absorption and permeability to water:	w < 0,1 kg/(m ² h ^{1/2})
Permeability to water vapour:	Class III, S _p > 50 m
Permeability to CO ₂ :	S _p > 50 m
Abrasion resistance:	< 3000mg
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%CH ₃ COOH, 20%H ₂ SO ₄ , 20%NaOH, 20%NaCl
Reaction to fire:	Class C - s1, d0
Dangerous substances:	NPD

PROTECTIVE COATINGS

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.