

ADINGFLEKS

Elastic, acrylate based waterproofing
In compliance with EN 1504-2/2.2 (C); 8.2 (C)

FILED OF APPLICATION

Elastic waterproofing for constructions exposed to positive hydrostatic pressure, for outdoor waterproofing of underground concrete constructions, at pools, balconies, flat roof terraces, toilettes, kitchens and similar. Also it is used for waterproofing of constructions exposed to atmospheric influences. It is suitable for use over bitumen.

PROPERTIES

- ready to use;
- simple application;
- excellent elasticity on temperature between -15°C and +60°C;
- concrete protection of water and moisture penetration;
- resistant to positive hydrostatic pressure;
- excellent adhesion to the substrate;
- bridges the micro-cracks of the substrate;
- bacteriologically resistant;
- UV stabile;
- resistant to ice;
- does not contain chlorides;
- suitable to apply over bitumen

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance		colored paste
Bulk density	EN ISO 2811-1	1,48-1,56 g/cm ³
Adhesion to the substrate (Bond strength)	EN 1542	≥1,5 MPa
Vapor-permeability	EN ISO 7783-1	Sd<5m - class I
Capillary absorption and water permeability	EN 1602-3	w<0,1kg/m ² h ^{1/2}
Adhesion to the substrate (Bond strength) after exposure to cycles freezing/ melting	EN 13687-3	≥1,5 MPa
Elongation at brake, at 20°C	-	100%
Reaction to fire	EN 13501	F
Temperature for application		5°C-35°C
Pot life		24h
Dry at 20°C		
Forming dry layer of the surface		2-3h
Dry		24-48h
Apply next layer at 20°C		after 12h
Use		after 7 days

METHOD FOR CONSTRUCTION

SUBSTRATE PREPARATION

Substrate for application of Adingfleks is concrete, cement mortar, gypsum cardboard panels, substrate with old bitumen. The substrate should be sound, dry, clean, solid and stable, without cracks, labile parts, existing coatings, grease or dust. The moisture of the substrate must be lower than 7% and temperature between 5-35°C.

The substrate for waterproofing should be solid, stable and compact cement mortar with slope. For application of waterproofing on the construction joints (horizontal and vertical, floor and wall), it is highly recommended to make curved element (holker) using Reparatur Malter F or to place ADING self-adhesive tape to bridge the joints, in case of constructive movements.

According to the details and the potentials of the building, joints at concreting, penetrations of installations through the construction, penetrations of the formwork spacers and similar should be appropriate treated with Reparatur malter F, ADING self-adhesive tape or with elastic acrylate sealant Adingakril.

In case of wide floor substrates, where the waterproofing is intended to be applied on cement mortar substrate or on additional reinforced concrete plate with slope, it is recommended to split (cut) the substrate on fields 9-12m² wide (24h after the construction), to prevent the risk of unplanned cracks of the substrate, which would need additional treatment.

For reconstructions, remove all labile parts of the substrate and clean it from dirt and dust. When the construction has any segregation or cracks, it is recommended to repair them with Eksmal, Reparatur Malter F, ADING self-adhesive tape or elastic sealant Adingakril, according to the detail and the potentials of the building.

Old bitumen, as substrate for application of Adingfleks, must be stable, without cracks and must have good adhesion to the substrate.

APPLICATION

Apply Adingfleks using brush, roller or by spraying in three layers. The substrate for application must be dry, without condensate and the moisture must be under 7%. For application dilute the quantity for the first layer of Adingfleks with 15% water and mix until it homogenize using slow mixer (150-300 revolutions/min). The application of the following layer is over completely dry previous layer. Period of time between the layers on 20°C is ~ 12h. For the following layers dilute Adingfleks using max 8% water and apply in normal direction of 90°C to the previous layer. The diluted quantity of Adingfleks should be enough for application of one layer. The temperature during the application should be between 5-35°C. After the application the treated surfaces should be protected of rain, wind and freezing at least 48h after the application.

For application of Adingfleks by spraying use 300bar pressure and sprayer with nozzle 6.45-8.45. Spray the surface normally to the substrate with distance of 20-30cm.

For substrates with expected deformations is recommended to place fiberglass mesh 45g/m² between the first and the second layer of Adingfleks. Place the mesh while the first layer is still fresh and emboss it using trowel. The second and the third layer of the waterproofing are intended to fulfill the thickness of the mesh in order to achieve uniform coating of the surface.

In case of mechanical damages of the waterproofing, the correction is simple, by overpainting the area. Protect the underground surfaces waterproofed with Adingfleks mechanically using protective membrane, expanded polystyrene or cement mortar. The over ground surfaces of the building should not be protected when are intended to be used for servicing the building (placing elements, repairs or similar).

CONSUMPTION

for three layers: 1.2-1.5kg/m²

for three layers with fiberglass mesh 45g/m² between the layers : 1.8-2.0kg/m²

CLEANING

Tools and equipment should be cleaned with water, immediately after use.


PACKING

Plastic bucket 4 and 20kg

STORAGE

In original, closed packaging, in dry spaces, at temperature between 5-35°C, protected from direct exposure to sunlight. Shelf life: 12 months.

CE MARK

 2032	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 17 GFBA001/5 EN 1504-2:2004	
ADINGFLEKS Highly elastic waterproofing coating, for surface protection for concrete and moisture control	
Permeability to water vapour	Class I, $S_D < 5$ m
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Adhesion strength by pull-off test	$\geq 1,5 \text{ N/mm}^2$
Adhesion after thermal compatibility:	Adhesion after 20 freeze-thaw cycles
Thermal cycling without de-icing salt impact	$\geq 1,5 \text{ N/mm}^2$
Reaction to fire	Class F
Dangerous substances	No performance determined

WATERPROOFING

Health hazards: Avoid contact of the product with skin and eyes, such as direct inhalation. In case of accidental contact of the product with skin, immediately remove it using soap and water. In case it splashes into eyes, immediately rinse them using plenty of water and seek for medical help.

Fire: Adingfleks is not flammable.

Cleaning and storage: Clean loose residues of Adingfleks with water. Old and used packaging should be disposed in accordance with the local rules and regulations for that type of waste. It is recommended to adjust the method of application and necessary quantities according to the potential of the building, as well as mandatory use of appropriate equipment.