

CLEVERPROOF™ BITUM 2K PLUS

TWO COMPONENT BITUMEN RUBBER BASED, TIXOTROPIC, LIQUID WATERPROOFING MEMBRANE.

DESCRIPTION:

CLEVERPROOF™ BITUM 2K PLUS is a two component, fast curing, polymer modified, bitumen rubber based liquid waterproofing membrane. It bonds perfectly to the surface it is applied to, forming a water and moisture resistant, high elasticity and durable film with crack bridging property. It complies with DIN 18195 and TS EN 15814 standards.

TYPICAL APPLICATIONS:

- ✓ Foundation walls
- ✓ In basements and cellars
- ✓ Underground parts of the buildings
- ✓ On balconies, terraces and roofs
- ✓ Retaining walls and settling tanks
- ✓ Green roofs and fields

FEATURES AND ADVENTAGES:

- ✓ Resistant to high pressure groundwater
- ✓ It is resistant to aromatic and aliphatic components and materials such as oil
- ✓ Fast Curing
- ✓ Its flexible structure, enables crack bridging
- ✓ Can be applied on damp surfaces
- ✓ It has high freezing and thawing resistance.
- ✓ Solvent-Free
- ✓ It is environmentally friendly.
- ✓ It enables seamless waterproofing
- ✓ Suitable for indoor applications

CONCRETE SUBSTRATE STANDARTS:

- ✓ Hardness R28 : 15 Mpa
- ✓ Humidity : W < 10%
- ✓ Temperature : +5°C and +30°C
- ✓ Relative Humidity : < 85%

For detailed information, please consult our technical department.

APPLICATION PROCEDURE:

SURFACE PREPARATION:

Before the application, adhesion weakening factors such as oil, grease, paraffin waste, cement grout, loose particles, mold release agents, cured old membranes should be removed from the surfaces. After cleaning the surface with high pressure water, it must be dried. Surface defects and cracks should be repaired with suitable products. Joint tape should be applied to corners and edges with a minimum radius of 4cm.

PRIMING:

For priming, 1 kg of CLEVERPROOF™ BITUM 2K PLUS liquid component should be taken and mixed with 5 liters of water in a separate container with a 400-600 rpm mixer for 3-4 minutes. The primer prepared in this way is applied by spreading homogeneously on the surface without causing ponding with a brush. Primer should be allowed to dry before application.

APPLICATION:

The powder component (component B) in the package should be slowly added into the liquid material and mixed with a mixer at 400-600 rpm until it becomes homogeneous (Lumps should not be allowed). After the prepared mixture is rested for 2-3 minutes, it should be mixed again for 20-30 seconds to make it ready to use. At +23°C air temperature, BITUM 2K PLUS should be consumed within 60 minutes after preparation. The main coat is applied on the dried primer surface. The entire application should be made at least in 2 layers. If the application to be made with a brush, the application layers should be applied perpendicular to each other. Both application and surface temperatures should be between +5°C and +30°C. The application should be protected from severe weather conditions for a minimum of 24 hours. BITUM 2K PLUS should be applied from the direction the water comes from. After the material is completely dry, the foundation pit should be filled with drainage plates and thermal insulation plates, protecting from impacts during filling.

APPLICATION REMARKS:

- ✓ After applying BITUM 2K PLUS, it should be covered.
- ✓ Not recommended for unstable surfaces.
- ✓ It is not used for waterproofing of swimming pools with chemically treated water.

CONSUMPTION:

Application Type	Number of Layers	Use of Damp Material
Damp Floor	2	-4,5kg /m ²
Leaking or Unpressurized Water	2	-4,5kg /m ²
Accumulated Leachate	2 (with fiber)	-5,5kg /m ²

CLEANING:

After the application, all tools used should be cleaned with a suitable solvent. The rolls are for single use only - They are only for single use.

PACKAGING AND COLOR:

22 Kg. + 8 Kg. It is presented in brown and black colors in plastic bucket (30 KG in one bucket).

STORAGE AND SHELF LIFE:

The product can be stored for a maximum of 12 months in its unopened original package at temperatures between +5°C and +25°C. Opened product should be used as soon as possible.


PRECAUTIONS:

The product should be used in well ventilated environments. The product should not be in contact with open fire. Smoking should not be allowed during application. Protective gloves and masks should be used for hands and eyes during application. If the material comes into contact with eyes, it should be washed immediately with sufficient water. Adequate ventilation is required during application. For more detailed information, ask for Safety Data Sheet (MSDS) from CLEVER POLYMERS technical department.

TECHNICAL DATA:

QUALIFICATION	METHOD	FEATURE
Coating Type	Clever Lab.	Two component Bitumen Rubber and Special Cement
Density	ASTM D 1475 / EN ISO 2811-1 (+20°C)	1,13 (±0,05) gr/cm ³
Application Temperature	Clever Lab.	+5°C to +30°C
Crack Bridging Capacity (At +4°C and 2mm wet film layer)	Clever Lab.	2mm
Vapor diffusion coefficient	Clever Lab.	5,000 - 30,000 μ
Temperature Resistance	Clever Lab.	+ 70°C
Resistance to Cold	Clever Lab.	0°C (does not crack during bending)
Water Permeability	DIN 52123)	0,75 bar
Rain Resistance	Clever Lab.	5 hours (After applied)
Thickness Reduction During Drying (After 28 Days)	Clever Lab.	~20%

* Viscosity measured at +25°C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.

	DOP NO: CLEVER-104 EN 15814:2011+A2:2014 BITUM 2K PLUS POLYMER MODIFIED BITUMINOUS THICK COATINGS FOR WATERPROOFING OF BELOW GRADE STRUCTURES	
	Crack Bridging Ability	CB-2
CLEVER POLİMER VE YAPI KİMYASALLARI A.Ş. Atatürk Mh. Ekincioğlu Sk. No:2 Ataşehir / İSTANBUL / TURKEY 19	Flexibility at low temperatures	No Cracks
	Resistance to Compression	C2A
	Resistance to Rain	R1
	Resistance to Water	R2
	Decrease of the Thickness When Fully Cured	≤ 50%
	Dimensional Stability at High Temperatures	No Sliding or Spilling
	Water Tightness	W2A
	Reaction to Fire	Class E

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