

POLYROOF STEKLOPLAST is designed for the installation and repair of flat roofs for civil and industrial buildings and structures

# POLYROOF

## BiFlex

- QUICK INSTALLATION
- SERVICE LIFE IS OVER 12 YEARS



### DESCRIPTION

POLYROOF BIFLEX is made by double-sided application on the base of the polymeric-bitumen binder, consisting of bitum, polymer additives and filler, followed by application of the protective layers on both sides of the canvas.

BASE VARIANTS:

**Glass fabric** has high-tensile strength.

**Glass cloth** suitable for the objects with normal and low level of responsibility.

#### POLYROOF BIFLEX K

with large-grained, flake-like grit from the front and polymer film from the canvas bottom side. Used for installation of the top layer of the roof covering. With increased resistance against ultraviolet.

#### POLYROOF BIFLEX P

with polymer film from the front and bottom side of the canvas. Used for installation of the lower layers of the roof covering and waterproofing of building constructions.

Length	10m
Width	1 m
Weight 1 m <sup>2</sup> for POLYROOF BIFLEX K for POLYROOF BIFLEX P	3.5 – 4.5 kg 2.5 – 4.0 kg
Thickness for POLYROOF BIFLEX K for POLYROOF BIFLEX P	3.0 ±0,2 mm 2.1 ±0,2 mm
Waterproofing under a pressure at most 60 kPa for 24 hours (A method)	Stands the tests
Water absorption	at most 1.0 %
Maximum tensile load, N/50, on the basis of: - glass cloth - glass fabric	400 600
Flexibility under low temperature	- 10°C
Heat - resistance	80°C
Loss of granules/flakes of the grit	at most 2 %

### PREPARATION FOR WORK

The surface shall be preliminary cleaned of dirt, dust, cement milk and other particles preventing from bonding of the melting material with the basis, all sharp and heaved elements, destroyed elements of the old roof shall be removed. The basis shall be leveled and treated with bitumen primer. One roll shall be fitted against the other on the prepared basis, and overlap of the adjacent sheets shall be provided at least 100 mm. Under the roof waterproofing it is necessary to start placement of the rolled material with the lower roof areas (junctions to the roof outlets along the valley) across the batters. Upon waterproofing of the foundation angles, the material overlap must be at least 300 mm. Placement of the rolled material may be performed by means of two methods listed below:

#### METHOD OF FREE LAYING

It is applied where it is impossible to use the burn method of the rolled material placement. For example, where waterproofing is placed over the heat insulator or geotextile. The bottom layer of the rolled waterproofing shall be fixed with the help of concrete nails or self-tapping screws, while the placement of the top layer shall be made by the standard method of melting. Laying of POLYROOF BIFLEX waterproofing shall start with rolling out of the material rolls in the same direction. Places of mechanical mounting of the rolled waterproofing shall be strengthened by the waterproofing material. The seam welding shall be performed by a gas burner or a welder by hot air.

#### MELTING METHOD

Laying of the rolled waterproofing may be performed only after complete drying out of the priming layer of bitumen primer. The material shall be melted on the basis by means of the propane burner, pressing

tightly to the basis by the pressing roller. Melting of the waterproofing rolls on the vertical surfaces shall be done from bottom to top.

It is important to ensure that there are no air gaps between the material and the basis. It is required to pay more attention to heating up of the material ends. Under the multilayer laying the second and the following layers shall be placed with a shift, so that the material could thoroughly cover the joints of the bottom layer. The areas of passing the pipes or other communications shall be strengthened by ECOMAST bitumen mastic. The vertical waterproofing of the foundation socle part must be protected from the cold, otherwise yield of the building foundation and ground displacement can damage it in due course.

## STORAGE

The rolls of POLYROOF BIFLEX material must be stored indoors or under cover upright abreast on pallets or without at a distance of at least 1 m from the heating appliances.

Guaranteed storage life is 12 months from the manufacture date.

[poly-roof.ru](http://poly-roof.ru)



- \* The information above is based on the laboratory tests and operational experience. Due to its acquisition and improvement of the materials, the manufacturer reserves the right to change or supplement the information without prior notice.

