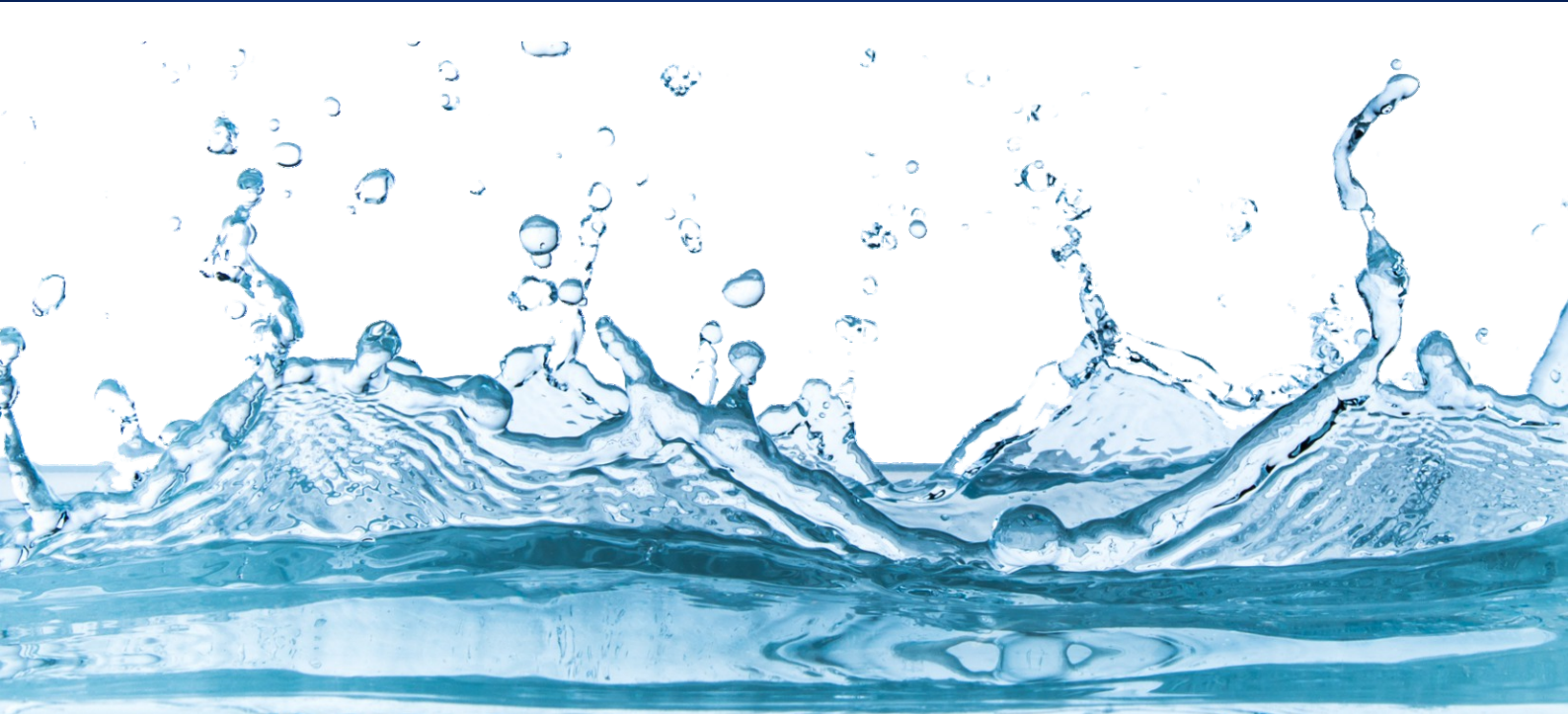


# BRONYA<sup>®</sup>

## SUPERFINE HEAT INSULATION

# AQUABLOCK EXPERT



### Waterproofing AQUABLOCK EXPERT:

- Increased adhesion to different surfaces, air resistance, wear resistance, elasticity and strength even in the case of a negative temperature.
- Application by all available means: brush, roller, airless apparatus.
- Creates seamless waterproof coating resistant to UV radiation.
- All weather conditions of application: from -25 °C to +35 °C.
- The service life of at least 10 years.



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## **Waterproofing AQUABLOCK EXPERT**

**BRONYA AQUABLOCK EXPERT** - light-resistant, liquid, single component composition based on synthetic rubber polymer with addition of solvents and functional additives, intended for repair and waterproofing of roofs, foundations, tanks, basins and various horizontal and vertical surfaces.

**BRONYA AQUABLOCK EXPERT** - recommended to apply on prepared surfaces. High adhesion to many types of materials makes it possible to repair surfaces with difficult-to-diagnose leakage spots.

Insulation operations may be carried out on surfaces with a temperature between -25°C and +35°C (surface humidity analysis). The operating temperature of **BRONYA AQUABLOCK EXPERT** ranges from -55 °C to +150 °C.

### **Main purpose:**

#### **Roofing repairs:**

- Soft surfacing materials
- Bitumen, bitumen mastics, ondulin and others;
- Concrete, slate, roof tiles;
- Ferrous and galvanized metal;
- Wooden bases, DSP, GSS, VSO, plywood.

#### **Waterproofing works:**

- Waterproofing of foundations (concrete, bricks and others);
- Hydraulic engineering works (sewage, sewers, locks and others);
- Pools, ponds, artificial streams and waterfalls;
- Tanks (including drinking water).

#### **Surface preparation**

The insulated surface needs to be cleaned of dirt, rust, dust, old paint, removal of falling elements and others. If oily and greasy elements are present, they must be removed with degreaser or xylene solvent or white spirit. The surface shall be dry (including without condensation). As a primer it is possible to use modification **BRONYA AQUABLOCK EXPERT**, diluted by solvent xylene by not more than 30% (recommended for loose and porous surfaces), as well as to use **BRONYA AQUABLOCK PRISM** as a primer. There is no need to apply the primer!

**IMPORTANT! The primer is not the first layer.**

## Preparation of BRONYA WATERPROOFING AQUABLOCK EXPERT

**BRONYA AQUABLOCK EXPERT** - ready for use, it is necessary to mix intensively with mixer (at least 3-5 minutes). BRONYA AQUABLOCK EXPERT DOES NOT REQUIRE DILUTION, but if adaptation to the application method is necessary, dilution with xylene not exceeding 3-10%.

### How to apply BRONYA WATERPROOFING AQUABLOCK EXPERT:

1. It is recommended to apply the material in 2 layers: By brush, roller or vacuum sprayer GRACO Mark 5, Mark 7, Mark 10 with 527 nozzle.

2. The average material flow rate is 500-600 grams per square metre with a layer thickness of 0.5 mm (approximate flow rate when applying a brush coating on a level non-absorbed surface). Material flow is affected by the type of surface and the application method.

### Recommended consumption and thickness of coating with 2 layers of brush without reinforcement of the surface:

Consumption kg/m <sup>2</sup>	Film thickness, mm	Note
1,0 – 1,3	0,5 – 0,7	- for metal roofing materials, slate
1,5 – 1,7	0,8 – 0,9	- smooth concrete, soft materials in good condition
2,0 – 2,5	1,0 – 1,3	- soft directed materials, concrete in loose condition, poor condition

3. The insulation shall be carried out under the following conditions:

- a) Normal weather conditions: no rain, no fog, no strong wind;
- b) Air humidity: not more than 80 per cent;
- c) Ambient air temperature: from -25 °C to +35 °C (with surface humidity analysis);
- d) **Attention!!! WORK IN WELL-VENTILATED SPACES (IN ROOMS, BASEMENTS, DEPRESSIONS, USE FORCED VENTILATION! );**
- e) **KEEP FAR TO AN OPEN FIRE SOURCE!**

4. After the application of the first layer of waterproofing coating BRONYA AQUABLOCK EXPERT should immediately, without waiting for its drying, spread the geotextile (density 80-100 g/m<sup>2</sup>), pressing it immediately with a roller or smoothing it with a brush. After it has dried before the casting apply the second finish layer BRONYA AQUABLOCK EXPERT.

**Important! It is recommended to remove sprinkles of roofing for the best result before applying!**

Instead of geotextiles, you can use a serpentine grid, a 2x2 mm grid, mainly for even surfaces!

The drying time of one layer of BRONYA AQUABLOCK EXPERT is 15 to 30 minutes at ambient temperature +20°C, 3 to 12 hours at high humidity, rain or minus temperature.

The complete formation of the polymer surface takes 72 hours to 2 weeks, under normal weather conditions, resulting in a seamless monolithic coating.

5. If the waterproofing has occurred on a wet surface (**which is highly undesirable!**), the surface needs to be audited with favourable weather conditions. If the surface has absorbed a large amount of water, then the moisture will search for an outlet when heated, there can be some blows and breakthroughs, which can be corrected by applying BRONYA AQUABLOCK EXPERT with reinforcement sections (geotextiles with a density of 80-100 g/m<sup>2</sup>).

**Attention! The warranty does not apply to a product used under conditions not recommended for use.**

After the work is finished, the instrument is cleaned with organic xylene solvent.

#### **Safety in working with BRONYA AQUABLOCK EXPERT**

- 1. ATTENTION!!! WORK IN WELL-VENTILATED SPACES (IN ROOMS, BASEMENTS, DEPRESSIONS USE FORCED VENTILATION!);**
- 2. NOT KEEP THE FIRE SOURCE OPEN!**
3. Use protective clothing, breathing, visual and skin protection equipment;
4. Avoid waterproofing in the eyes and skin;
5. In case of eye contact, it is necessary to wash them with a lot of water and to see a doctor immediately.

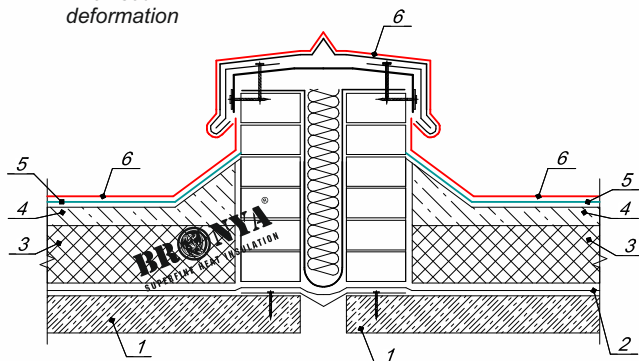
#### **Storage and transport conditions BRONYA AQUABLOCK EXPERT**

BRONYA AQUABLOCK EXPERT storage is carried out in tightly closed packages in dry spaces at temperatures ranging from -25 °C to +30 °C.

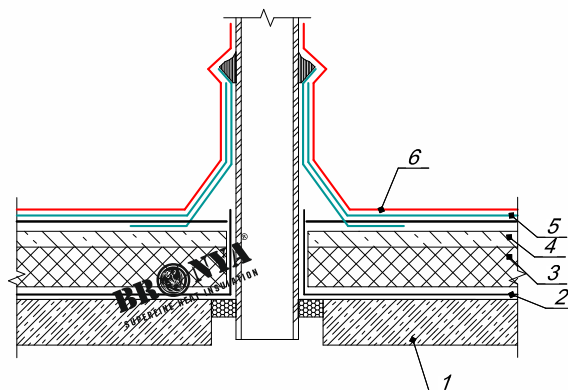
The shelf life of the material is 12 months.

Number	Indicator name	Measure value
1	Dry balance, not less than, %	65
2	Density, kg/m <sup>3</sup>	1300
3	Time of drying to "casting" at (20±3)°C, min	20-30
4	Viscosity, 20C Pa•s (Pa•s)	16
5	Water absorption within 24 hours,% by weight, no more	0
6	Initial tensile strength at 20°C, kgs/cm <sup>2</sup>	36
7	Tensile strength, kgs/cm <sup>2</sup>	148
8	Adhesion to concrete, mPa	2,5
9	Adhesion to metal, mPa	2,3
10	Adhesion to plastic, mPa	1,3
11	Adhesion (DIN ISO 2409)	G0
12	Resistance of the film to static effects of water,at t= (20±2)°C, hh	168
13	Vapour permeability, g/m <sup>2</sup> /h	0,8
14	Elasticity, %	360
15	Water swelling 20 °C,168 h, %	0
16	Low-temperature resistance, °C	до -55
17	Operating temperature, °C	от -55 до +150
18	Peak heating temperature without change of coating quality,°C	+320
19	Storage temperature, °C	от -35 до +35
20	UV resistance,%	100

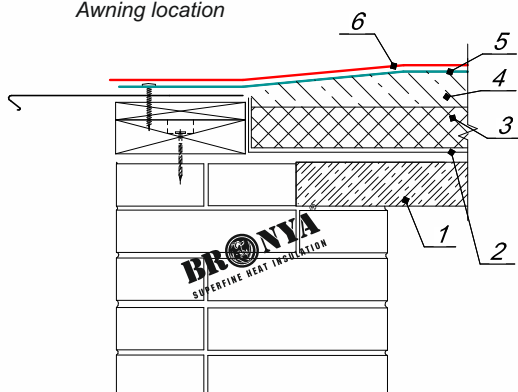
Brick seam deformation



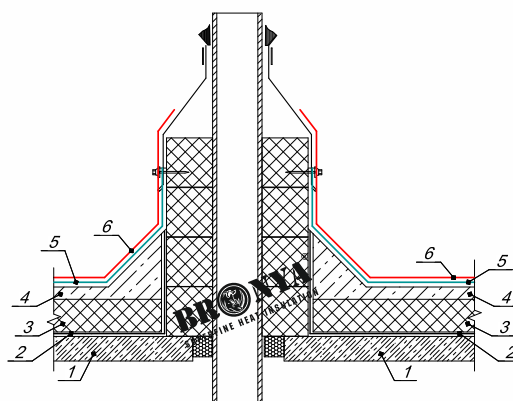
Roofing carpet attached to pipe



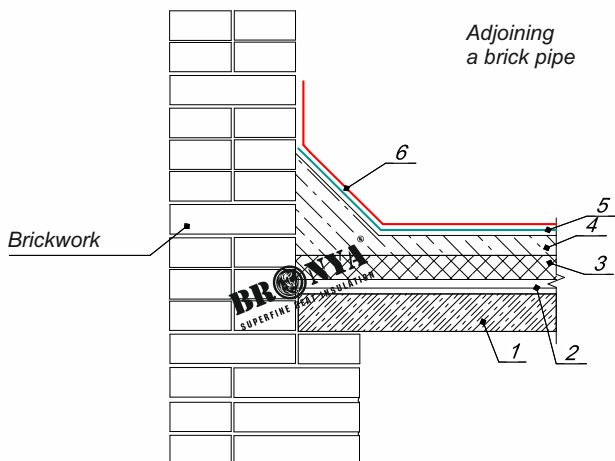
Awning location



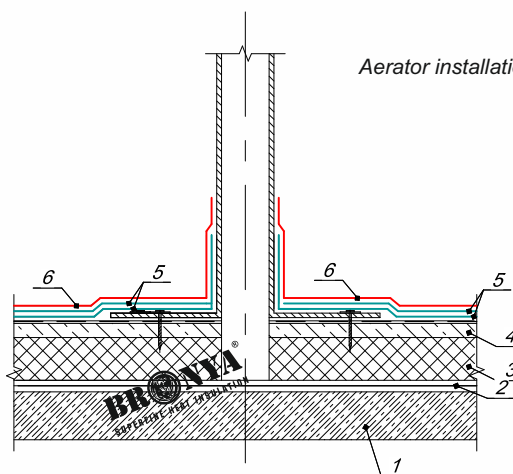
Adhering to a hot pipe



Adjoining a brick pipe

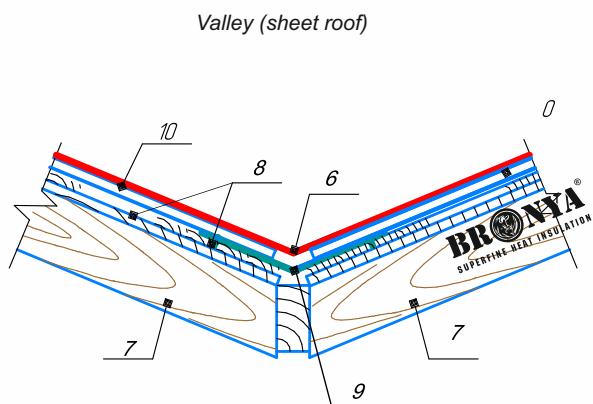
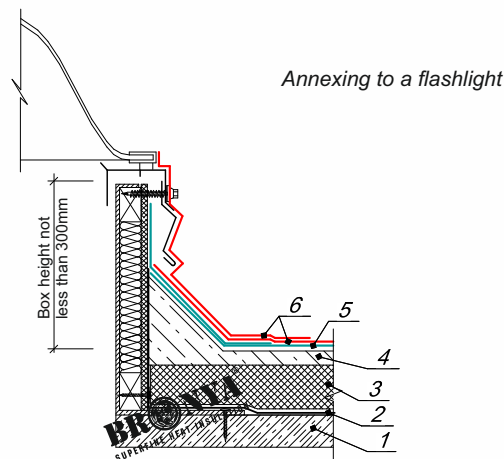
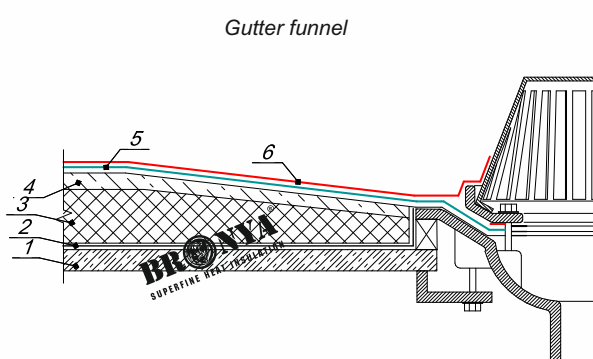
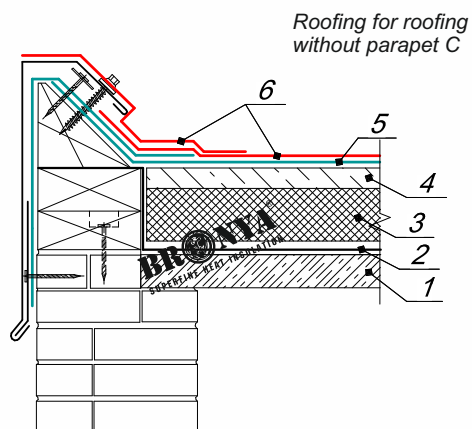
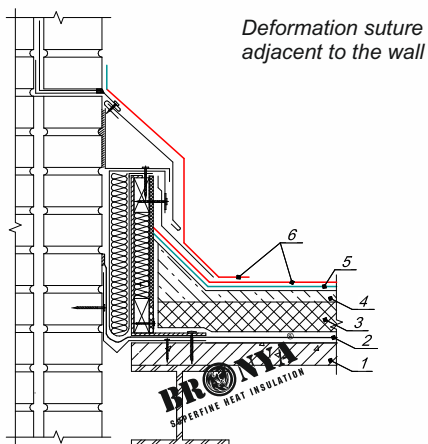


Aerator installation

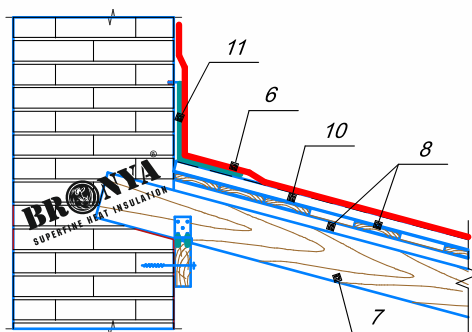


**Position numbers:** 1 - Slab; 2 - Vapour insulation; 3 - Insulation; 4 - Reinforced cement fixture; 5 - Existing coil;  
6 - Waterproofing AQUABLOCK EXPERT



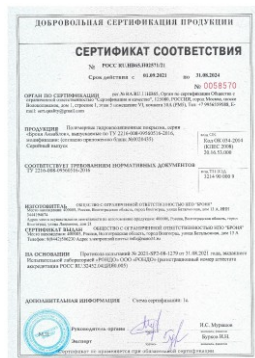


*Affixing to the wall (sheet roof)*



**Position numbers:** 1 - Slab; 2 - Vapour insulation; 3 - Insulation; 4 - Reinforced cement fixture; 5 - Existing coil; 6 - Waterproofing AQUABLOCK EXPERT; 7 - Straps; 8 - Trimming; 9 - Trestle; 10 - Sheet; 11 - Metal sheet

## CERTIFICATIONS



Certificate according to GOST  
BRONYA AQUABLOCK



AQUABLOCK state registration



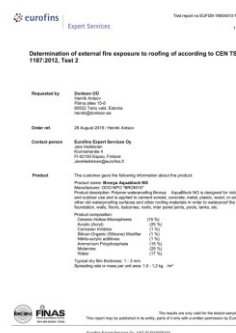
BRONYA AQUABLOCK - food  
certificate for modifications of  
BRONYA AQUABLOCK



Fire Certificate F1 BRONYA  
AQUABLOCK



EC certificate for waterproofing  
BRONYA AQUABLOCK NF



BRONYA AQUABLOCK  
(FINLAND) European Fire Test  
Certificate





