



BRONYA VIBROHYDROPLAST

Bronya VibroHydroPlast is a liquid one-component material with vibration-insulating, sound-absorbing and waterproofing properties. The material has the highest resistance to chemical and mechanical influences, excellent elasticity and durability. It is made on the basis of a synthetic rubber polymer with the addition of solvents, functional additives and highly porous nanogel. Protects the surface from water and chemical exposure.



Designed for application at **negative ambient temperatures from -25 °C to +35 °C**. Designed for vibration isolation, sound absorption and waterproofing as transport (including passenger, cargo, spec. equipment), and external and internal surfaces of enclosing structures of buildings and structures, foundations, roofs, pipelines, tanks, ducts, chimneys, industrial equipment, marine and river vessels, transport hulls for various purposes, containers, tanks and reservoirs, including non-absorbent surfaces or surfaces with low absorbency - **plastic, polymer materials:** polyethylene (PE), polyvinyl chloride (PVC), polypropylene (PP), non-ferrous metals, dense concrete and other surfaces. A durable weather-resistant coating designed for use in conditions of constant contact with water, aggressive media, including "salt mist".

The operating temperature of Bronya VibroHydroPlast modification ranges from -55 °C to +150 °C.

APPLICATION

Designed for waterproofing, vibration isolation, sound absorption, protection and prolongation of the service life of all types of materials:

- ▶ plastic
- ▶ tree
- ▶ brick
- ▶ drywall
- ▶ bitumen roll with sprinkling and mastic smooth substrates
- ▶ flat, pitched and domed roof structures
- ▶ galvanized and black metal
- ▶ concrete
- ▶ plaster
- ▶ slate
- ▶ Single-layer membranes
- ▶ and other surfaces for external and internal application

Bronya VibroHydroPlast provides super protection against moisture penetration and all weather conditions.

This paint serves as the upper reflective layer. After complete drying and polymerization Bronya VibroHydroPlast forms a seamless, rubber-like, waterproof membrane. The special formula provides high strength, elasticity, resistance to fungus and mold, as well as resistance to extreme weather conditions and ultraviolet radiation.

KEY ADVANTAGES

- ▶ **drying speed** – 20 minutes before "sticking" – at (20 ± 3) °C, complete drying 5-7 hours at (20 ± 3) °C
- ▶ simultaneously provides waterproofing, vibration isolation and sound absorption
- ▶ **it is possible to apply, including on non-absorbent surfaces or surfaces with low absorbency** - plastic, polymer materials: polyethylene (PE), polyvinyl chloride (PVC), polypropylene (PP), non-ferrous metals, dense concrete and other surfaces
- ▶ forms a continuous coating of the object with the elimination of "cold bridges" and absolute water impermeability
- ▶ does not increase the load on the foundation and other building structures
- ▶ high elasticity and crack resistance, including at low temperatures
- ▶ does not contain organic solvents, odorless, non-flammable, environmentally friendly
- ▶ **all-weather application:** from -25°C to $+35^{\circ}\text{C}$
- ▶ **compatible with any surfaces:** wood, concrete, brick, plaster, drywall, slate and others
- ▶ can be in constant contact with water and aggressive environments, including "salt fog" and on the "first coastline"
- ▶ in places of constant humidity, it is able to carry thermal insulation, including on highly plastic, plastic, glossy polycarbonate (with the necessary base for application, see the instructions)
- ▶ it is characterized by high durability and weather resistance, to frost extremes, constant exposure to direct sunlight, including constant frost extremes and constant exposure to direct sunlight
- ▶ resistance to the formation of fungus, mold and algae fouling
- ▶ the warranty period is 25 years.

ADVANTAGES OVER ANALOGUES

Rubber coatings based on organic solvent of the Bronya VibroHydroPlast series, due to high all-weather properties, waterproofing, vibration-insulating, sound-absorbing, chemical durability, as well as elasticity and versatility of application – have no analogues in price / quality.

PROTECTIVE PROPERTIES BRONYA VIBROHYDROPLAST



It has all-weather protective properties. It is resistant to chemical and mechanical influences (impacts and chips)



It has the property of "self-healing" - with light impacts, due to its hyperplasticity, the surface itself is restored

AREAS OF APPLICATION BRONYA VIBROHYDROPLAST:

- ▶ industrial equipment
- ▶ industrial premises
- ▶ tanks, reservoirs
- ▶ balconies, loggias
- ▶ plastic and metal pipes
- ▶ wagons, ships, transport
- ▶ residential premises

APPLICATION EXAMPLES:



Application to noise screens and fences (the material is well applied even to non-absorbent surfaces such as plastic, polycarbonate, etc.)



Vibration waterproofing and sound absorption of motor vehicles (both passenger and cargo, special equipment). In this case, our material is easier to apply and collectively has less weight than the "classical" noise and vibration insulation



Vibration waterproofing of railway transport



Bronya VibroHydroPlast is used to improve the designs of wagons, which reduces the rate of their wear and increases comfort for passengers



Vibration waterproofing of equipment



Bronya VibroHydroPlast redistributes and effectively dampens dynamic loads from equipment, allowing the use of foundations of smaller size and weight



Plastic and metal pipes, tanks, tanks, structures, in order to eliminate noise and vibration that comes from them, as well as protection from atmospheric influences and ultraviolet



Industrial premises where a strong noise and sound insulation coating is needed



Bathrooms, showers, toilets, swimming pools, where additional sound and vibration insulation is needed for thermal insulation



Walls, floors inside and outside the premises (both residential and basement)



Balconies, loggias, window and door slopes

DETAILED SPECIFICATIONS:

- ▶ **Base material:** synthetic rubber
- ▶ **Density** kg/m³, 800±10%
- ▶ **Viscosity**, 20C Pa·s (Pa*s) – 16
- ▶ **Tensile strength** – 148 kgf/cm²
- ▶ **Adhesion to metal**, MPa – 2.3
- ▶ **Adhesion** (DIN ISO 2409) – G0
- ▶ **Vapor permeability** – 0.8 g/m²/h
- ▶ **Swelling from water** 20°C, 168h – 0%
- ▶ **Operating temperature**, Celsius, from -55°C to +150°C
- ▶ **Mass fraction of non-volatile substances**, % 50
- ▶ **Drying time before "sticking"** – at (20 ±3)°C, min 20 – 30
- ▶ **Initial tensile strength** at 20 °C – 36 kgf/cm²
- ▶ **Adhesion to concrete**, MPa – 2.5
- ▶ **Adhesion to plastic**, MPa – 1.3
- ▶ **Film resistance to static water exposure**, at t = (20 ±2) °C, h, not less than 168
- ▶ **Elasticity**, % – 350
- ▶ **Frost resistance**, up to – 55 °C
- ▶ **Storage temperature** from -35°C to +35°C

MANUAL FOR APPLYING PAINT BRONYA UNIVERSAL ELASTIC

BRONYA VIBROHYDROPLAST is a light-resistant, liquid, one-component composition based on a synthetic rubber polymer with the addition of solvents, highly porous nanogel, functional additives, having waterproofing and vibration-damping (sound-insulating) properties. Designed for waterproofing and sound insulation (vibration damping) of various horizontal and vertical surfaces.

BRONYA VIBROHYDROPLAST is recommended to be applied to prepared surfaces.

High adhesion to many types of materials makes it possible to repair surfaces with difficult to diagnose leakages. Insulation work can be carried out on surfaces with **temperatures from -25 °C to +35 °C** (with an analysis of surface humidity). **The operating temperature** of the BRONYA VIBROHYDROPLAST ranges **from -55 °C to +150 °C**. This modification has a low Newtonian fluidity, therefore, when applied to vertical surfaces, there is practically no "sliding" effect, even when applying **a layer 0.5 mm thick** (depending on the type of surface, tasks and temperature, weather conditions).

1. Surface preparation

The insulated surface must be cleaned of dirt, rust, dust, old paint, remove crumbling elements, etc. In the presence of oily and greasy elements, it must be removed with a degreaser, or with xylene solvent or white spirit. The surface must be dry (including not condense). The surface is pre-primed.

Learn more about the priming system of materials:

- **plastics:** primed Bronya Universal Elastic or a primer layer can be made from Bronya VibroHydroPlast;
- **wood:** primed either Bronya Universal Elastic or Bronya VibroHydroPlast;
- **black metal:** primed Bronya Metal Elastic;
- **polycarbonate:** Priming Bronya Prism;
- **plastic polycarbonate:** Bronya Prism is primed with geotextile reinforcement.

IMPORTANT! The primer layer is not considered the first calculated layer.

2. Preparation of waterproofing coating BRONYA VIBROHYDROPLAST

*****CHECK THE INTEGRITY OF THE SEALS BEFORE OPENING THE CONTAINER*****

BRONYA VIBROHYDROPLAST is ready for use, it must be intensively mixed with a mixer (at least 3-5 minutes).

The mixing speed is not higher than **120-150 rpm**.

BRONYA VIBROHYDROPLAST must be diluted with xylene by **no more than 3-10%**.

3. Application of waterproofing thermal insulation coating BRONYA VIBROHYDROPLAST

3.1 It is recommended to apply the material: with a brush, roller or an airless spray device GRACO Mark 5, Mark 7, Mark 10 with a nozzle 321 pressure: 140 Bar.

3.2 The material is applied in **layers of 0.5 mm** at a time (depending on the type of surface, tasks and temperature, weather conditions). The average material consumption is about **1 liter per 1 square meter** with a layer thickness of **1 mm** (approximate consumption when applying a brush coating on a flat non-absorbent surface). The material consumption is affected by the type of surface and the method of application.

3.3 The insulation works must be carried out under the following conditions:

- **Normal weather conditions:** no rain, fog, strong wind
- **Air humidity:** no more than 80%
- **Ambient temperature:** -25°C to +35°C (with surface humidity analysis)
- **ATTENTION!!! WORK IN WELL-VENTILATED AREAS (USE FORCED VENTILATION IN ROOMS, BASEMENTS, RECESSES!)**
- **DO NOT ALLOW NEAR AN OPEN SOURCE OF FIRE!**

3.4 After applying the first layer of waterproofing thermal insulation coating BRONYA VIBROHYDROPLAST, if necessary, you can immediately, without waiting for it to dry, evenly lay geotextile (density 80-100 g / m²), immediately pressing it with a roller or smoothing with a brush. After it dries before sticking, apply a second finishing layer of BRONYA VIBROHYDROPLAST.

Instead of geotextile, you can use a sickle grid, a paint grid with a 2×2 mm cell, mainly for flat surfaces!

The drying time of one layer of BRONYA VIBROHYDROPLAST coating is from 15 to 30 minutes at **an ambient temperature of +20 °C, from 3 to 12 hours** at high humidity, raining or subzero temperatures.

The complete formation of the polymer surface takes **from 72 hours to 2 weeks**, under normal weather conditions, which leads to the formation of a seamless monolithic coating.

After finishing the work, the tool is washed with an organic solvent xylene.

4. Safety precautions when working with BRONYA VIBROHYDROPLAST

1) Attention!!! WORK IN WELL-VENTILATED AREAS (USE FORCED VENTILATION IN ROOMS, BASEMENTS, RECESSES!)

2) DO NOT ALLOW NEAR AN OPEN SOURCE OF FIRE!

3) Use overalls, personal protective equipment of respiratory organs, vision, skin

4) Do not allow the Bronya VibroHydroPlast to get into the eyes and skin

5) In case of contact with the eyes, it is urgently necessary to rinse them with plenty of water and immediately consult a doctor

5. Storage and transportation conditions BRONYA VIBROHYDROPLAST

Storage of the BRONYA VIBROHYDROPLAST material is carried out in tightly closed containers in dry rooms at **temperatures from -25 ° C to +30 ° C**. The shelf life of the material is **12 months**.