



































# Selection & Specifcation Data

**Product Name** 

Bronya Light Nord

Description

Bronya Light Nord

Thermal insulation coating Bronya Light Nord is an innovative material for construction and finishing works, designed for thermal and acoustic insulation of interior and exterior surfaces of concrete, brick, cement-lime plasters, gypsum blocks and tiles, gas and foam concrete, gypsum Board, gypsum fiber Board, etc.lt has similar thermal insulation properties of the main line, but in addition to high-quality microspheres contains high-porous nanogel having thermal insulation and vibration damping (sound insulation) properties. In comparison with all known traditional putty materials, a distinctive feature of heat and sound insulation armor light is that in addition to its main purpose-leveling the surface of the base — armor light acts as heat and sound insulation coating, as well as prevents the formation of condensate and fungus. Bronya Light Nord is not toxic, does not contain harmful volatile compounds, and is completely safe for people suffering from allergies, which is confirmed by the conclusion of the sanitary-epidemiological examination. Heat-insulating coating armor light has high rates of adhesion, vapor permeability, weather resistance, and durability. The use of heat-insulating coating armor light In production facilities and workshops can improve the energy efficiency of the enterprise and reduce the cost of heating or cooling the room, which will reduce production costs and improve working conditions. Possibility to use on the equipment used in Maritime navigation

#### **Features**

- Thermal insulation of building facades during new construction, reconstruction and restoration;
  Thermal insulation of internal surfaces of enclosing structures of residential and industrial premises;
  Insulation of roofs of buildings, roofs of metal sheds and garages, mansard floors.;
  Thermal insulation of window and door slopes, loggias, balconies, protruding parts of metal and concrete structures, monolithic floor ends;
  Thermal insulation of panel joints;
  Thermal insulation of panel joints;
  Thermal insulation of floors on the warm floor system;-Elimination of "cold bridges»;
  Ability to carry out steklovidnye and insulation work at the same time;
  Protection of the enclosing structure from adverse weather conditions and preservation of the building structure from destruction;
  Elimination of freezing walls;
  Getting rid of condensation and mold;
  Preservation of the useful area of premises;
  The possibility of applying any decorative coating on top of a warm putty;

- a warm putty;
  Reduction of air conditioning costs;
  Prevention of freezing and condensation from the inside of the roof;
  The possibility of
- The possibility of work on the objects put into operation.

Water-based Acrylic Insulation Coating

Flat Gloss

Base

Weight dry flm

Solids Content

**Average Coat** 

Thickness Practical Dry

Coat Coverage

VOC Content

Limitations

Storage

Practical Volume

to area

**Priming** 

Self priming over non-ferrous materials (stainless steel & luminum). Primer required for carbon steel substrates.

Please consult NPO Bronva Ltd. Topcoats

5.2-5.3 lbs/gallon (0.63 kg/liter) Wet Weight

0.035 lbs/ft<sup>2</sup> at 20 mils dft (0.170 kg/m<sup>2</sup> at 0.50 mm dft)

78-80%

20–22 mils WFT at  $70^{\circ}$ – $130^{\circ}$ F (0.5 mm WFT at  $21^{\circ}$ – $54^{\circ}$ C)

50-55 ft²/gal @ 20 mils (1.3 m²/liter @ 0.5 mm)

0.06 lbs/gal (7.6 grams/liter)

Applications should not exceed 375°F (190°C).

Do not subject wet coating in pail form to freezing conditions. Coating should be kept in a warehouse between 60°F and 90°F

## **Substrates & Surface Protection**

**Surface Prep** RECOMMENDED SUBSTRATE CONDITIONS

Surface should be dry and free of foreign matter. Steel; blast cleaned to ISO-Sa2S (NASE 3), blasting profile 30 - 75 mkm (1.2 - 3.0 mils) or

according to ISO-St3

**Ferrous** Should be primed prior to application of Bronya **Surfaces** Light Nord. Since the coating is waterbased, it is

important to have a boundary layer of protection

to prevent flash rusting.

Non-ferrous Surfaces

The coating can be applied directly to nonferrous surfaces. Surface should be clean and free of any oil, dirt or other foreign matter.

## **Application Equipment**

Listed below are the general equipment guidelines for the application of this product.

Airless Sprayer Pump Ratio: 33:1 or larger

> Volume: 1.5 gpm (5.7 lpm) or greater

3/8" or larger with no more Hose: than 3' of 1/4" whip. 1/2"

hose recommended for length above 50'.

0.017" (for tight spots) Tip Size:

0.019-0.023" (Normal use)

Pressure: Minimum of 3000 PSI

Small Spray Application

Please consult NPO Bronya Ltd. for the Small Application Gun. This gun is excellent for small

applications and touch-ups.

**Brush** Can use

Rolling Not recommended for this coating

### **Application Conditions**

**Surface Temperatures**  Surface temperatures for applications should be greater than 60°F (15°C) or above. Lower surface temperatures will increase dry times.

Ambient & Cold (60°-139°F, 15°-59°C): For **Applications** 

temperatures (surface or ambient - whichever is lower), an initial tack coat is recommended of 10 mils (0.25 mm or 250 microns). This tack coat will help eliminate sag on vertical wall applications. Tack coat should be dry to touch prior to next pass. Typical coat thickness should not exceed 20-22 mils (0.5-0.55mm) wet. Coating can be reapplied after each coat is thoroughly dry.

Hot (>140°F, >60°C):

Please consult NPO Bronya Ltd.

**Application Thickness** 

Product can be applied in successive coats to increase insulation ability. There are no upper

limitations.

Dryfall within a 3 ft radius Dryfall

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# **Coating Specifcations**

Appearance composition	Suspension	#.4.2. TC
Surface appearance	white semi-plain matte film	
Surface appearance	white	#.4.3. TC
Mass fraction of nonvolatile substances in the composition, not less than	at least 50 %	#. 4.4. TC
Ratio heat transfer, W/m2· °C	1,4±0,7	#. 4.5. TC
Ratio thermal conductivity, W/m·°C	0,0025±0,0002	#. 4.6. TC
Resistance to static action water at 20°C for	24 h	
The adhesion of the coating	at least 1	GOST 9.403-80 method A
Linear elongation, %	at least 1	GOST 28574-2014
Resistance variable temperature	More than 80	GOST 18299-72
Combustibility group	Г1	GOST 25898-2012
Group smoke-forming ability	B1	GOST 30244
Group Flammability	Д2	GOST 30402
Group toxicity combustion products	T2	GOST 12.01.044
Drying time for degree 3	5 hours	GOST 19007-73
Coverage dried film	186	GOST 8784-75
Film strength at impact	30	GOST 4765-73
UV resistance change in percent after 48 hours of irradiation	0,5 %	GOST 21903-76 method 2
Solar reflection	83%	ASTM E 903:01
The normal ratio radiation corrected	0,91	EN 673:1997
The ratio of OSL (SRI) for conditions with weak wind	103,56	ASTM E 1980:01
The ratio of OSL (SRI) for conditions with moderate wind	103,30	ASTM E 1980:01
The ratio of OSL (SRI) for conditions when the wind is strong	103,01	ASTM E 1980:01
The coefficient of permeability of the material, mg/m h PA	0,03	GOST 25898-2012
Surface temperature when applying the material, °C from	-20 to + 40	
Operating temperature, °C	-60 to + 90	
Material density at 20°C, kg / m3	600±10%	
Mass fraction of volatile substances, not more, %	43	
Hydrogen index of the material, pH	7.5-11.0	
Drying time and film formation at a temperature of (20±2)°C, not less than	24 hours	
Adhesion of the coating on the separation force, not less than, Mpa to concrete and brick surface to steel	1,3 2,2	
Resistance of coat to static action at a temperature of (20±2)°C, not less: Waters 5% NaOH solution	unchanged unchanged	





# **Cleanup & Safety**

Cleanup Equipment may be cleaned with soap & water

Safety Half-face respirator recommended with ammonia cartridge or better. Eye protection recommended.

**Ventilation** Recommended for constricted areas.

Caution This material is not for human consumption
Clothing Safety clothing & gloves are recommended

# **Mixing & Thinning**

Mixing Only a mud mixing paddle should be used. Use

1/2" drill motor to stir contents with paddle. Make sure drill is set to reverse to ensure that the paddle will not mar the bucket's inner wall. Please consult

NPO Bronya Ltd. for paddle, if needed.

Thinning Thinning is normally not needed. Please consult

NPO Bronya Ltd. for specifc instructions if thinning

is desired.

Pot life Coating is one part, so no catalyzation is

needed. Pail can be reused if properly sealed.

Container 20 liters

# Package, Handling & Storage

Container Wet (with pail/lid) 12.47—12.7 kg per 20 liters

Net Contents 11.7 kg per 20 liters

Flash Point (Setaflash)

None

**Storage** Do not subject wet coating in pail form to

freezing conditions. Coating should be kept in

a warehouse between 60°F and 90°F.

**Shelf Life** 12 months shelf life from manufacture date.

**Caution** Do not let product freeze.

The data within is true to the best of our knowledge on the date of publication and is subject to change without prior notice. We guarantee our products to conform to Bronya quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. All logos are property of their respective owners