







## **Selection & Specifcation Data**

## **Product Name** Bronya Light Description

Bronya Light Thermal insulation coating Bronya Light 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. It 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 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 he 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

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Features	<ul> <li>Thermal insulation of building facades during new construction, reconstruction and restoration;</li> <li>Thermal insulation of internal surfaces of enclosing structures of residential and industrial premises;</li> <li>Insulation of roofs of buildings, roofs of metal sheds and garages, mansard floors.;</li> <li>Thermal insulation of window and door slopes, loggias, balconies, protruding parts of metal and concrete structures, monolithic floor ends;</li> <li>Thermal insulation of panel joints;</li> <li>Thermal insulation of floors on the warm floor system;-Elimination of "cold bridges»;</li> <li>Ability to carry out steklovidnye and insulation work at the same time;</li> <li>Protection of the enclosing structure from adverse weather conditions and preservation of the building structure from destruction;</li> <li>Elimination of freezing walls;</li> <li>Getting rid of condensation and mold;</li> <li>Preservation of the useful area of premises;</li> <li>The possibility of applying any decorative coating on top of a warm putty;</li> <li>Reduction of air conditioning costs;</li> <li>Prevention of freezing wald condensation from the inside of the roof;</li> <li>The possibility of work on the objects put into operation.</li> </ul>	Small Spray Application Brush Rolling Surface
Base	Water-based Acrylic Insulation Coating	Temperature
Gloss	Flat	• • •
Priming	Self priming over non-ferrous materials (stainless steel & luminum). Primer required for carbon steel substrates.	Applications
Topcoats	Please consult NPO Bronya Ltd.	
Wet Weight	5.2–5.3 lbs/gallon (0.63 kg/liter)	
Weight dry flm	0.035 lbs/ft² at 20 mils dft (0.170 kg/m² at 0.50 mm dft)	
to area Practical Volume Solids Content	78–80%	
Average Coat Thickness	20–22 mils WFT at 70°–130°F (0.5 mm WFT at 21°–54°C)	
Practical Dry Coat Coverage	50–55 ft²/gal @ 20 mils (1.3 m²/liter @ 0.5 mm)	<b>.</b>
VOC Content	0.06 lbs/gal (7.6 grams/liter)	Application Thickness
Limitations	Applications should not exceed 375°F (190°C).	
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	Dryfall
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## Substratos & Surface Protection

Subst	rates & Sur	tace 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 Surfaces	Should be primed prior to application of Bronya Light. 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.		
A	pplication	Equipment	
Listed below are application of this		ment guidelines for the	
Airless Sprayer	•	33:1 or larger	
	Volume:	1.5 gpm (5.7 lpm) or greater	
	Hose:	3/8" or larger with no more than 3' of 1/4" whip. 1/2" hose recommended for length above 50'.	
	Tip Size:	0.017" (for tight spots) 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		
A	pplication	Conditions	
Surface Temperatures	Surface temperatures for applications should be greater than 60°F (15°C) or above. Lower surface temperatures will increase dry times.		
Applications	Ambient & Cold (60°–139°F, 15°–59°C): For temperatures (surface or ambient – whichever is		

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

Dryfall within a 3 ft radius



## **Coating Specifcations**

Appearance composition	Suspension white	#.4.2. TC
Surface appearance	semi-plain matte film grey (beige)	#.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	0,001±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	+7 to + 120	
Operating temperature, °C	-60 to + 150	
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 We (with pail/lid)			
Net Contents	s 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.		

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