



























Selection & Specifcation Data

Product Name Bronya Universal NF

DescriptionBronya Universal - budget ultra-thin insulation, which has similar characteristics to the Bronya

Classic and Bronya Standard. The result of successful, partial implementation of import-substituting technologies in production.

Designed for industrial use as thermal insulation of metal, plastic and other surfaces with operating temperature from -60°C to +

140°C.

Thermal insulation coating Bronya Universal,

weatherproof, not permeable.

Features • Highly effective in thermal insulation of hot

and cold water pipelines, steam pipelines, air ducts for air conditioning systems, cooling systems, various tanks, tanks, trailers,

refrigerators, etc.

Used to eliminate condensation on cold water

pipes and reduce heat loss in heating

systems

Base Water-based Acrylic Insulation Coating

Gloss Flat

Priming Self priming over non-ferrous materials

(stainless steel & aluminum). Primer required

for carbon steel substrates.

Topcoats Please consult NPO Bronya Ltd.

Wet Weight 5.2-5.3 lbs/gallon

(0.63 kg/liter)

Weight dry flm to area

0.035 lbs/ft² at 20 mils dft (0.170 kg/m² at 0.50 mm dft)

Practical Volume 78-80%

Solids Content

Average Coat 20—22 mils WFT at 70°—130°F Thickness (0.5 mm WFT at 21°—54°C

Practical Dry 50–55 ft²/gal @ 20 mils

Coat Coverage (1.3 m²/liter @ 0.5 mm)

VOC Content 0.06 lbs/gal (7.6 grams/liter)

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

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 Universal NF. 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

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

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.

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

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 Dryfall within a 3 ft radius



Coating Specifcations

Appearance composition	Suspension white	#.4.2. TC
Surface appearance	semi-plain matte film 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	0,001±0,0002	#. 4.6. TC
The time to reach incombustibility when complete polymerization of the composition	7 days (168 h)	
Resistance to static action water at 20°C for	24 h	GOST 9.403-80 method A
The adhesion of the coating	at least 1	GOST 28574-2014
Linear elongation, %	at least 1	GOST 18299-72
Resistance variable temperature	More than 80	GOST 9.401-91 method 12
Ratio vapor permeability, Mg/m h PA: - Bronya Classic	0,001	GOST 25898-2012
Combustibility group	HΓ (NF)	GOST 30244
Group smoke-forming ability	KM0	GOST 30402
Group Flammability	Д2	GOST 12.01.044
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





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