



























Selection & Specifcation Data

Bronya Antirust **Product Name**

Description

Bronya Antirust-unique material that can be applied directly to the rusty surface. Simple enough to remove with a wire brush "raw" (friable) rust, after which you can apply insulation Bronya Antirust observing instruction. Ultra-thin heat insulation Bronya Antirust -a special composition with high adhesion and corrosion characteristics, resistant to UV radiation and chemicals (solutions of salts, acids, alkalis, some types of petroleum products). The coating increases the service life of the insulated surface and protects against corrosion. The use of heat insulator Bronya Antirust in thermal insulation of existing structures and pipelines significantly reduces labor costs, since it does not require special preparation of the working surface.

Features

- allows to perform thermal insulation of building metal structures, metal products, pipelines, industrial equipment for various purposes, operating in high humidity conditions or exposed to aggressive environments;

- environments;

 allows to reduce or completely eliminate the formation of condensation on cold water pipes and air ducts;

 allows to isolate equipment without stopping technological processes;

 allows to reduce repair costs in case of emergency situations by reducing the time of leak detection and removal of old insulation;

 to prevent temperature deformations of metal surfaces;
 it is the basis for the application of other modifications.

Base Water-based Acrylic Insulation Coating

Gloss

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 (0.5 mm WFT at 21°-54°C **Thickness**

Practical Drv 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 Surfaces

Should be primed prior to application of Bronya Antirust. 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)

Minimum of 3000 PSI Pressure:

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 NPÓ 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 Drvfall



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	0,003	GOST 25898-2012
Surface temperature when applying the material, °C from	+7 to + 150	
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 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.

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