

# LES REVÊTEMENTS LORANGER



## Let's save the planet 20 liters at a time !

### Selection & Specification Data

<b>Product name</b>	<u>Bronya Antirust</u>
<b>Description</b>	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.
<b>Features</b>	<ul style="list-style-type: none"> <li>• 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</li> <li>• Allows to reduce or completely eliminate the formation of condensation on cold water pipes and air ducts</li> <li>• Allows to isolate equipment without stopping technological processes</li> <li>• Allows to reduce repair costs in case of emergency situations by reducing the time of leak detection and removal of old insulation</li> <li>• To prevent temperature deformations of metal surfaces</li> <li>• It is the basis for the application of other modifications.</li> </ul>
<b>Base</b>	Water-based acrylic insulation coating
<b>Gloss</b>	Flat
<b>Priming</b>	Self priming over non-ferrous materials (stainless steel & aluminum). Primer required for carbon steel substrates
<b>Topcoats</b>	Please consult Bronya Canada
<b>Wet Weight</b>	5.2—5.3 lbs/gallon (0.63 kg/liter)
<b>Weight dry film to area</b>	0.035 lbs/ft <sup>2</sup> at 20 mils dft (0.170 kg/m <sup>2</sup> at 0.50 mm dft)
<b>Practical Volume Solids Content</b>	78-80%
<b>Average coat thickness</b>	20-22 mils WFT at 70° -130° F (0.5 mm WFT at 21° -54° C)
<b>Practical Dry coverage</b>	50-55 ft <sup>2</sup> /gal @ 20 mils (1.3m <sup>2</sup> /liter @ 0.5 mm)
<b>VOC Content</b>	Applications should not exceed 375 °F (190 °C).
<b>Storage</b>	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

<b>Surface prep</b>	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
<b>Ferrous Surfaces</b>	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.
<b>Non-ferrous surfaces</b>	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.

<b>Airless sprayer</b>	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 ¼ whip. ½" hose recommended for length above 50'
<b>Small Spray Application</b>	Please consult Bronya Canada for the small application gun. This gun is excellent for small applications and touch-ups.
<b>Applications</b>	Can use

**Rolling** Not recommended for this coating

### Application Conditions

<b>Surface temperatures</b>	Surface temperatures for applications should be greater than 60° F (15° C) or above. Lower surface temperatures will increase dry times.
<b>Applications</b>	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 Bronya Canada
<b>Applications Thickness</b>	Product can be applied in successive coats to increase insulation ability. There are no upper limitations
<b>Dryfall</b>	Dryfall within a 3 ft radius

## Coating Specification

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/m <sup>2</sup> °C	1,4±0,7	#. 4.5. TC
Ratio thermal conductivity, W/m <sup>2</sup> °C	0,001±0,0002	#. 4.6. TC
Resistance to static action water at 20°C for	24h	
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 time	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 ration 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/m <sup>3</sup>	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 To steel	$\frac{1,3}{2,2}$	
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 & glove 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 Bronya Canada, for paddle, if needed.
- Thinning** Thinning is normally not needed. Please consult Bronya Canada for specific 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 (25kg)

## 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.