





Selection & Specifcation Data

Product Name

Bronya Facade

Description

Bronva Facade Is an ultra-thin liquid ceramic thermal Bronya Facade Is an ultra-thin liquid ceramic thermal insulation material that can be applied in layers of thickness from 0.5 mm to 1 mm at a time (depending on the application modes), and has a vapor permeability of high-quality facade paint (0.03). Armor Facade is an weather-resistant high-viscosity composition, specially designed for thermal insulation of vertical surfaces. The coating applied to the wall from inside or outside, forms a single seamless surface, retains heat throughout the room, which has a positive effect on the climate. Bronya Facade reflects up to 80% of the visible solar and infrared radiation spectrum. This leads to a visible solar and infrared radiation spectrum. This leads to a significant reduction in heating of the interior in summer, the cost of air conditioning, and in cold weather – can reduce heat losses up to 30%. Heat-insulating coating Bronya Facade Is a durable material with high adhesion to any building materials, along with good vapor permeability has hydrophobic (water-repellent) properties. Liquid ceramic heat insulator Bronya Facade Is used for thermal insulation of plastered, concrete, brick, wooden other surfaces of building envelope structures and structures for external and internal works. Ceramic heat insulator Bronya Facade can be covered with acrylic paint on the top of the water dispersion base, wallpapering is allowed. Tinting Bronya Facade is allowed only under the condition of strict compliance with our technical man following our recommendations for the technical map, following our recommendations for the selection of tinting pastes, technical nuances.

Features

- · perform insulation of walls both outside and inside;
- · keep the volume of usable area (with thermal insulation of walls from the inside);
- · do not increase the load on the building structure;
- isolate facades with complex architectural solutions (including during reconstruction works);
- to increase the temperature comfort of the room:
- · reduce costs and time for construction work.

Water-based Acrylic Insulation Coating **Base**

Gloss

Priming Self priming over non-ferrous materials

(stainless steel & aluminum). Primer required

for carbon steel substrates.

Please consult NPO Bronya Ltd. **Topcoats**

Wet Weight 5.2-5.3 lbs/gallon

(0.63 kg/liter)

0.035 lbs/ft2 at 20 mils dft Weight dry flm to area (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 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.

Ferrous Should be primed prior to application of Bronya **Surfaces** Facade. Since the coating is waterbased, it is important to have a boundary layer of protection

to prevent flash rusting.

Non-ferrous The coating can be applied directly to Surfaces 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'.

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.

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 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
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
Ratio vapor permeability, Mg/m h PA:	0,03	GOST 9.401-91 method 12
Combustibility group	Γ1	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 + 120	
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

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

cartridge or better. Eye protection recommended.

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 12.47—12.7 kg per 20 liters

(with pail/lid)

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