























#### Selection & Specifcation Data

Bronya Fireprotection **Product Name** 

Description Bronya Fireprotection used in construction for

the protective finish bearing metal structures inside the building, operated in different atmospheric conditions. The compound is used both for industrial and for domestic use.

Designed to improve the fire resistance of load-

bearing metal building constructions.

**Features** • Metal infrastructure of oil refineries (refinery)

> · Chemical companies, including being the source of impact low - and middle aggressive

acid or alkaline environments

· Open and closed Parking lots, shelves, overpasses

Civil engineering projects without any restrictions

 Additional facilities where appropriate use of fire-retardant paints without topcoats

Water-based Acrylic Insulation Coating Base

Flat **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 1.25 kg/liter

Weight dry film 0.035 lbs/ft2 at 20 mils dft to area  $(0.170 \text{ kg/m}^2 \text{ at } 0.50 \text{ mm dft})$ 

Practical Volume не менее 50%

Solids Content

**Average Coat Thickness** 

1 mm

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 should be dry and free of foreign matter. **Surface Prep** 

Surface prep can be used to NACE 1-3 (SSPC

SP 5-6) when applicable.

**Ferrous** Should be primed prior to application of Bronya **Surfaces** 

Fireprotection. 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: Any pressure

Small Spray Please consult NPO Bronya Ltd. for the Small Application

Application Gun. This gun is excellent for small

applications and touch-ups.

**Brush** Can use

Rolling Can use

### **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 within a 3 ft radius **Dryfall** 

# Cleanup & Safety

Equipment may be cleaned with soap & water Cleanup

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

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# **Coating Specifcations**

appearance	White, thick, a homogeneous mass, when dry forms a matte coating	#.4.3		
Mass fraction nonvolatile substances, % not less than	, 50	GOST 17537 #. 4.4		
Drying time to level 3 at a temperature of (20±2)° C,h, not more	1	GOST 19007		
Dynamic viscosity on Brookfi ice MPa.h, not less	17000	GOST 1929-87		
The degree of grinding, micrometers, no more	50	GOST 8784		
The ability of the coating to peel	Should not exfoliate from metal	п.		
Insulating properties of the coating, minutes, no less	60	п.		

## **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 (25kg)

#### Package, Handling & Storage

Container Wet 25.8–26.7 kg per 20 liters (with pail/lid)

Net Contents 25 kg per 20 liters

Flash Point (Setaflash)

None

Storage Do not subje

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.

Given the thickness steel structure, mm	Fire resistance, min									
	45		60		90		120			
	thickness, mm	consumption, kg/m²	thickness, mm	consumption, kg/m²	thickness, mm	consumption, kg/m²	thickness, mm	consumption, kg/m²		
2,4	1,2	1,69	1,53	2,15	-	-	-	-		
2,6	1,21	1,8	1,56	2,29	-	-	-	-		
2,8	1,18	1,74	1,51	2,22	-	-	-	-		
3	1,14	1,69	1,47	2,16	-	-	-	-		
3,2	1,11	1,64	1,42	2,09	-	-	-	1		
3,4	1,07	1,59	1,38	2,03	2	2,82	-	ı		
3,6	1,04	1,53	1,34	1,96	2,26	3,33	-	-		
3,8	1	1,48	1,29	1,9	2,21	3,27	-	1		
4	0,97	1,43	1,25	1,83	2,17	3,2	-	-		
4,2	0,93	1,37	1,2	1,77	2,12	3,14	-	-		
4,4	0,9	1,32	1,16	1,7	2,08	3,07	-	-		
4,6	0,86	1,27	1,11	1,64	2,03	3,01	-	-		
4,8	0,83	1,21	1,07	1,57	1,99	2,94	-	-		
5	0,79	1,16	1,03	1,51	1,94	2,87	-	-		
5,2	0,76	1,11	0,98	1,44	1,9	2,81	-	-		
5,4	0,72	1,06	0,94	1,38	1,85	2,74	-	-		
5,6	0,69	1	0,89	1,31	1,81	2,68	-	-		
5,8	0,62	0,87	0,8	1,14	1,76	2,61	-	-		
6	0,65	0,95	0,85	1,25	1,72	2,54	-	-		
6,2	0,65	0,95	0,85	1,25	1,67	2,48	-	-		
6,4	0,65	0,95	0,85	1,25	1,63	2,41	-	-		
6,6	0,65	0,95	0,85	1,25	1,58	2,35	-	-		
6,8	0,65	0,95	0,85	1,25	1,54	2,28	-	-		
	0,65	0,95	0,85	1,25	1,49	2,22	-	-		
7,2 and more	0,65	0,95	0,85	1,25	1,3	1,83	2,3	3,3		

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