



TEST REPORT No.: ETR-21-0575

 Unique identification code of the product type:

«Bronya Classic NF» thermal insulating dispersion thin plaster / non-flammable

2. Intended use:

Factory-made, pre-mixed thermal insulating plaster with organic binder for outdoor and indoor use, suitable for plastering walls, partitions and ceilings

3. Manufacturer:

NPO «BRONYA» LLC

13A. Batalionnaya St., 400005 Volgograd

Russian Federation

4. Authorised representative:

GOUP FOUR for Maintenance and Services Road 3616, Block 436, Bldg 742, Office 75,

P.O. Box 26999

Seef Aarea, Kingdom of Bahrain

VAT; 22000636670002

ASTM E1980-11

5. Harmonised standard:

Notified Body:

EELab-Dipatimento di ingegnaria «Enzo Ferrari»

Via Vivarelli 10, 41125 Modena, Italia VAT code/Partita IVA: 00427620364

Identification number:

6. Performance(s) stated in the declaration:

Test Date		Solar	Reflectance Index (S	SRI)[%]
		Low wind	Medium wind	High Wind
21/12/2021	Value	89.5	91.0	91.8
-		Surfa	ace temperature (ST) [°C]
		55.0	48.0	42.4
Test met	hod	ASTM E1980-11	4	

Notes This calculation was performed according to ASTM E1980-11: Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces. This utilizes the following values for the convection coefficient: h_c = 5 W/m²·K for low-wind (0 to 2 m/s), h_c = 12 W/m²K for medium-wind (2 to 6 m/s), and h_c = 30 W/m²K for high-wind (6 to 10 m/s).

Person signing for and behalf of the manufacturer:

Date

NPO «BRONYA» LLC CEO Boyarincev A. Name, surname and seal of the authorized person





































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GENERAL INFORMATION

Subject:	Test report on testing activities to determine solar reflectance, infrared emittance and solar reflectance index (SRI)						
Client	GOUP FOUR for Maintenance and Services Road 3616, Block 436, Bldg 742, Office 75, P.O. BOX 26999 Seef Area, Kingdom of Bahrain VAT: 22000636670002	Client reference person	Mr. Ram Mohan Kutty phone: +973 17225373 email: rmk@groupfourservices.com PEC: -				
Commitment document	MO_GC_05 dated 15/12/2021 sent by Ram Mohan Kutty	Report release date	23/12/2021				
Notes							

SAMPLE DATA

Product name	BRONYA NF						
Manufacturer	Bronya St. Lavraneva 21 Volgograd - Russia	daC to the	6-3				
Short physical description	Product type: Water- vacuum microsphere Surface aspect and/o Substrate: metal	es		n coating. Hol	low	Gundantuntuntuntuntuntuntuntuntuntuntuntuntun	
Sample thickness	3.5 mm	Total s	ample size	6 x 6 cm			
Surface coated	YES	Coatin	g thickness	2.000 mm		3-	
Information on history and ageing	N.A.	0.88			2-1		
Other information			and incompanies of		117.168		
Receipt date	21/12/2021		ed extenses		Uso arel	fundandandandandandan	minnhuimhui
Sample id. sub.	-		-1			Sample pict	ure
ECRC id	-Na decision (s. 1. de)		Mar Samuella				
Committee	Carried out by the C	lient					
Sampling	-				1		
		THE PALE					
Ageing Treatments	-				NO	Cleaned	NO
Ageing	- Variegated	NO	Aged				
Ageing Treatments	- Variegated Diffusive reflecting	NO NO		te reflecting	YES	Clear transmitting	NO

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The test results are based on the material supplied by the client. This report shall not be reproduced except in full without the written approval of this laboratory. This laboratory assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, which for a normal distribution provides a level of confidence of approximately 95%.









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TEST RESULTS

Test Date		Solar Reflectance (SR)	Standard Deviation	Measured Values				
21/12/2021	Value	0.749	0.006	0.754	0.741	0.752	0.753	0.745
	U(k=2, P=95%)	(±0.010)	RIGHT DELIVERS	THE SUITERING	ment sit bil	AUT TOUG		- Bullion
Test	nethod	ASTM C1549-09			200.00	20 10 1		
Reference S	olar Spectrum	ASTM E 891- 87 Direc	ct normal	- Assist	to makerali	HariA last		

This test was performed according to ASTM C1549-09: Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Reflectometer with air mass 1.5. A solar spectrum reflectometer Devices and Services SSR-ER was used. Calibration standards with low (0.000) and high (0.864) solar reflectance were provided by the instrument manufacturer. Measurements were conducted at ambient temperature of 21 ± 1°C and relative humidity of 45% ± 10%.

Test Date		Infrared Emittance (IE)	Deviation	Measured Values		
21/12/2021	Value	0.811		0.816	0.807	0.811
	U(k=2, P=95%)	(± 0.055)				
Test	nethod	ASTM C1371-15				

Notes This test was performed according to ASTM C1371-15: Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers. An emissometer with scaling digital voltmeter Devices and Services AE1 RD1 was used. Calibration standards with low (0.060) and high (0.870) emittance were provided by the instrument manufacturer.

Measurements were conducted at ambient temperature of 21 ± 1°C and relative humidity of 45± 10% in a time period of about 1 h.

Test Date		Solar Reflectance	Infrared Emittance (IE)	Solar Reflectance Index (SRI)[%]			
		(SR)		Low wind	Medium wind	High Wind	
21/12/2021 Value	Value	0.749	0.811	89.5	91.0	91.8	
				Surface temperature (ST) [°C]			
				55.0	48.0	42.4	
Test met	hod	ASTM E1980-11					

Notes This calculation was performed according to ASTM E1980-11: Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces. This utilizes the following values for the convection coefficient: h_c = 5 W/m²·K for low-wind (0 to 2 m/s), h_c = 12 W/m²K for medium-wind (2 to 6 m/s), and h_c = 30 W/m²K for high-wind (6 to 10 m/s).

The Responsible of EELab Laboratory (Prof. Alberto Muscio)