

Pinturas
Coatings



nubiola

our passion your colors

NUBIFER

NUBICROM

NUBICOAT

NUBIROX

AN IDEAL INORGANIC PIGMENT ALTERNATIVE!

NUBIOLA produces and sells highly micronized inorganic pigments: the **NUBIFER 5000 series**, **NUBICROM** and **NUBICOAT**. These pigments are ideal for the coatings industry.

The high micronization **NUBIFER 5000 series**, **NUBICROM** and **NUBICOAT** permit easy pigment dispersion, as well as a greater color development, brightness and consistency due to their homogeneous particle size distribution and low sieve residue, reducing product dosage and energy consumption.

The excellent rheological and colorimetric properties of **NUBIFER 5000 series**, **NUBICROM** and **NUBICOAT** make them ideal for coatings (both water based and solvent based systems).

	Primer	Decorative	Powder/Coil	Other industrial paints	Color Concentrate
Nubifer 5000 series	●	●	●	●	●
Nubifer 4000 series	●	●	●	●	●
Nubifer 2000 series	●	●	●	●	●
Nubicoat		●	●	●	●
Zinc Ferrite			●		
Nubicrom 02	●	●	●	●	●
SMM4/SMM6/SMM7	●	●	●	●	●

Ideal
Adequate
Fair

WHAT DOES **MICRONIZATION** MEAN?

The micronization process breaks up the pigment's agglomerates into primary pigment particles. It guarantees particle size homogeneity and optimum pigment dispersability.

■ **NUBIFER 5000 series:**

Nubiola's micronized Iron Oxides improve dispersion properties and increase productivity rates, resulting in:

COST SAVINGS: its excellent dispersability reduces the time required to maximize tinting strength, lowering processing costs due to reducing the energy required.

REDUCED MILLED TIME: improves color consistency and brightness.

REDUCED SIEVE RESIDUE: optimizes the production process, simplifying maintenance operations.

■ **NUBICROM:**

It is the high micronized Green Chrome Oxide pigment range. These are high-quality, synthetically produced inorganic color pigments suitable for applications requiring special micronization, giving the product easy dispersion and allowing for thin coats.

■ **NUBICOAT:**

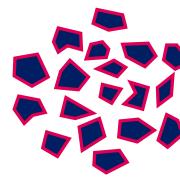
It is the specific range of Ultramarine Blue pigments developed for coatings applications. "A unique color space", that no other pigment or blend of pigments can match. The reddish undertone of ultramarine blue evokes a higher level of warmth, brightness and intensity both in full and reduced shades than the ones obtained with other pigments, for example, a phtalocyanine pigment, which has a greenish and dirtier undertone, even when it is mixed with a violet organic pigment.

The Nubicoat range meets technical requirements for coatings applications thanks to a new production process which improves the pigment's tinting strength and dispersibility.

NUBICOAT HTS: higher tinting strength versus the traditional grade used in coatings by increasing colorant strength by 40% and improving its dispersability and brightness.

NUBICOAT HWR: is an acidic environment resistant grade. Thanks to its new silica encapsulation technology, it improves colorant strength by 60% compared to conventional acid resistant grades. Outdoor resistance test results are similar to those obtained with cobalt blue and phtalocyanine.

This product is also available in dispersion for any water-borne system; Nubicoat DT-155 is equivalent to Nubicoat HTS and Nubicoat HW-160 is equivalent to Nubicoat HWR.

CONVENTIONAL TECHNOLOGY	NEW TECHNOLOGY
 NOT EFFICIENT ULTRAMARINE BLUE CONVENTIONAL Acid Resistant	 Nubicoat HWR

■ **NUBIROX:**

Nubirox is a range of Anticorrosive pigments based on highly effective modified phosphates that perform better than conventional products.

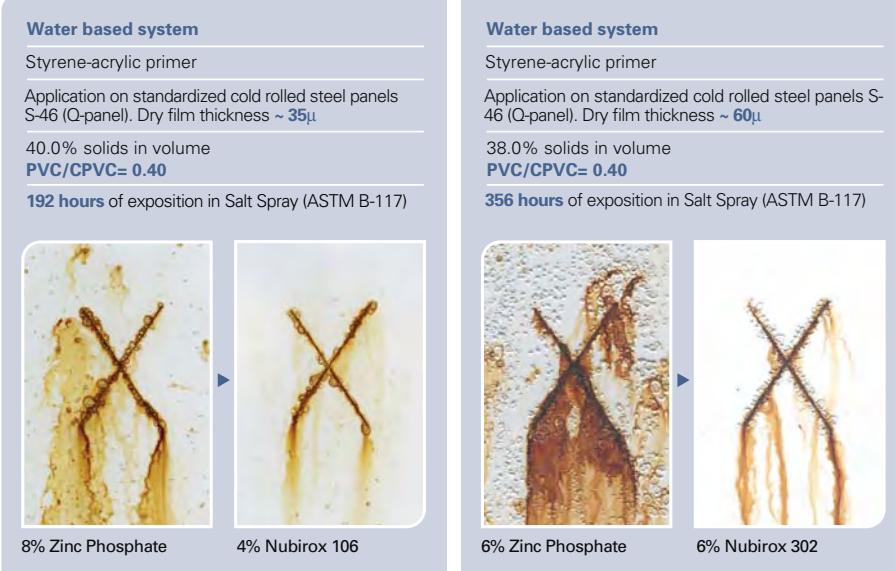


Standard Zinc Phosphate



Nubirox Technology

Nubirox 102	<i>Organophilized Zinc Phosphate and Zinc Molybdate</i>	
Nubirox 106	<i>Organophilized Zinc Phosphate and Zinc Molybdate</i>	
Nubirox 213	<i>Iron Phosphate and Zinc Phosphate</i>	
Nubirox 301	<i>Calcium Strontium Phosphosilicate</i>	
Nubirox 302	<i>Organophilized Calcium Strontium Phosphosilicate</i>	
Nubirox N2	<i>Standard Zinc Phosphate</i>	
Nubirox SP	<i>Special particle Zinc Phosphate</i>	
Nubirox 215	<i>Iron Phosphate and Zinc Phosphate</i>	
Nubirox FR-10	<i>Nitrite-based liquid inhibitor</i>	
Nubirox FR-20	<i>Nitrite-free liquid inhibitor</i>	



NUBIFER

NUBICROM

NUBICOAT

NUBIROX

UNA ÓPTIMA ALTERNATIVA EN EL SUMINISTRO DE PIGMENTOS INORGÁNICOS

NUBIOLA produce y comercializa pigmentos inorgánicos altamente micronizados: **NUBIFER serie 5000**, **NUBICROM** y **NUBICOAT**, especialmente idóneos para la industria de la pintura.

La alta micronización de las gamas **NUBIFER serie 5000**, **NUBICROM** y **NUBICOAT** permite una fácil dispersión del pigmento, así como una mayor consistencia en el desarrollo del color, brillo e intensidad. Gracias a su distribución homogénea del tamaño de partícula y su bajo nivel de residuo en tamiz reduce la dosificación del producto y la energía requerida.

Las excelentes propiedades colorimétricas y reológicas de **NUBIFER serie 5000**, de **NUBICROM** y de **NUBICOAT**, los hacen indicados para su uso tanto en sistemas base agua como disolvente.

	Imprimación	Decorativa	Polvo	Otras pinturas industriales	Concentrados de color
Nubifer serie 5000	■	■	■	■	■
Nubifer serie 4000	■	■	■	■	■
Nubifer serie 2000	■	■	■	■	■
Nubicat		■	■	■	■
Ferrita de Zinc			■		
Nubicrom 02	■	■	■	■	■
SMM4/SMM6/SMM7	■	■	■	■	■

■ Apto
 ■ Adecuado
 ■ Óptimo

¿QUÉ ES LA MICRONIZACIÓN?

La micronización es un proceso que deshace los aglomerados de partículas hasta alcanzar las partículas primarias del pigmento. Dicho proceso garantiza un tamaño de partícula homogéneo y una óptima dispersabilidad del pigmento.

■ NUBIFER serie 5000:

La gama de Óxidos de Hierro micronizados de Nubiola mejora la dispersión del pigmento e incrementa los índices de productividad. Esto se traduce en mejoras en término de:

AHORRO EN COSTES: su excelente dispersabilidad reduce el tiempo necesario para desarrollar el color, disminuyendo el coste del proceso al reducir la energía empleada.

REDUCCIÓN DEL TIEMPO DE MOLIENDA: mejora la consistencia del color y el brillo.

REDUCCIÓN DE RESIDUOS EN TAMIZ: optimiza el proceso productivo de la pintura simplificando las operaciones de mantenimiento.

■ NUBICROM:

Es la gama de Óxidos de Cromo Verde altamente micronizado. Es un pigmento sintético de alta calidad especialmente desarrollado para aplicaciones que requieran una excelente dispersión. Esto permite su uso en pinturas de escaso micraje.

■ NUBICOAT:

Es la gama de pigmentos Azul Ultramar específicamente diseñada para pinturas. Cubre “un espacio de color único” que ningún otro pigmento o mezcla de pigmentos puede igualar. El tono rojizo del azul ultramar provoca una sensación de calidez, luminosidad e intensidad tanto en los tonos llenos como los tonos pastel, muy superiores a los obtenidos con otros pigmentos. Por ejemplo, con azul ftalocianina, que tiene un subtono más verdoso y sucio, incluso cuando se mezcla con pigmento violeta orgánico.

Gracias a un nuevo proceso productivo que permite incrementar la fuerza colorante y mejorar la dispersión del pigmento, Nubicoat cumple los requerimientos técnicos para aplicaciones en pinturas.

NUBICOAT HTS: mayor poder colorante respecto a los tipos que tradicionalmente se han usado en pinturas (aumenta un 40%) y mejora su dispersabilidad y brillo.

NUBICOAT HWR: es un pigmento resistente a las atmósferas ácidas. Gracias a una nueva tecnología de encapsulamiento en sílice se incrementa el poder colorante un 60% respecto a los tipos resistentes al ácido convencionales. Las pruebas de resistencia a la intemperie dan resultados similares a los obtenidos con azul cobalto y azules de ftalocianinas.

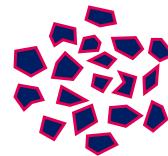
Este producto también se encuentra disponible en formato dispersión para todos los sistemas en base agua; Nubicoat DT-155 es el equivalente al Nubicoat HTS y el Nubicoat DW-160 el equivalente al Nubicoat HWR.

TECNOLOGÍA CONVENCIONAL

NUEVA TECNOLOGÍA



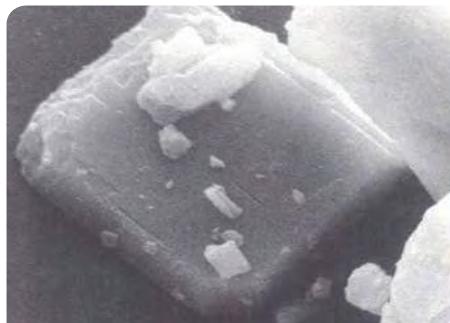
AZUL ULTRAMAR
Resistente al Ácido CONVENCIONAL



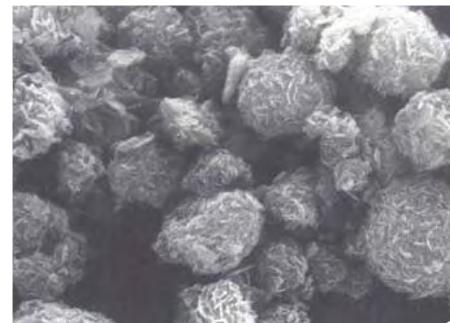
Nubicoat HWR

■ NUBIROX:

Nubirox es una gama de pigmentos Anticorrosivos a base de fosfatos modificados de alta eficacia que mejoran sus prestaciones respecto a los productos convencionales.



Fosfato de Zinc convencional



Tecnología Nubirox

Nubirox 102	<i>Fosfato y Molibdato de Zinc Organofilizado</i>	
Nubirox 106	<i>Fosfato y Molibdato de Zinc Organofilizado</i>	
Nubirox 213	<i>Fosfato de Hierro y Zinc</i>	
Nubirox 301	<i>Fosfosilicato de Calcio y Estroncio</i>	
Nubirox 302	<i>Fosfosilicato de Calcio y Estroncio Organofilizado</i>	
Nubirox N2	<i>Fosfato de Zinc Estándar</i>	
Nubirox SP	<i>Fosfato de Zinc de Partícula Especial</i>	
Nubirox 215	<i>Fosfato de Hierro y Zinc</i>	
Nubirox FR-10	<i>Inhibidor líquido de Flash Rust</i>	
Nubirox FR-20	<i>Inhibidor líquido de Flash Rust exento de nitratos</i>	

Sistema al agua

Imprimación Estireno-acrílica

Aplicación sobre paneles de acero laminado en frío estandarizados S-46 (Q-panel). Espesor seco ~ **35µ**

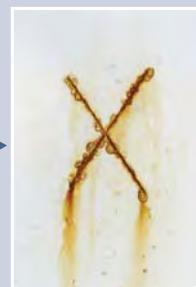
40.0% sólidos en volumen

CPV/CPVC= 0.40

192 horas de exposición en Niebla Salina (ASTM B-117)



8% Fosfato de Zinc



4% Nubirox 106

Sistema al agua

Imprimación Estireno-acrílica

Aplicación sobre paneles de acero laminado en frío estandarizados S-46 (Q-panel). Espesor seco ~ **60µ**

38.0% sólidos en volumen

CPV/CPVC= 0.40

356 horas de exposición en Niebla Salina (ASTM B-117)



6% Fosfato de Zinc



6% Nubirox 302



¡Una alternativa global válida!



A global and valid alternative!

5 PLANTAS DE PRODUCCIÓN / PRODUCTION PLANTS

4 LABORATORIOS DE APLICACIONES / APPLICATION LABS

11 OFICINAS COMERCIALES / COMMERCIAL OFFICES

NUBIFER

Óxido de Hierro Sintéticos
Synthetic Iron Oxide

% Fe₂O₃

ASTM E227

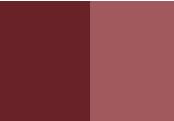
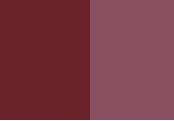
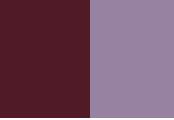
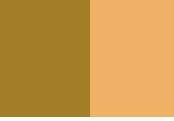
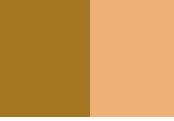
pH

ASTM D1208

% Humedad

% Moisture

ASTM D280

	NUBIFER R-5501	94-98	3-6	0,3
	NUBIFER R-5510 NUBIFER R-5511	94-98 94-98	3-6 3-6	0,3 0,3
	NUBIFER R-5520	94-98	3-6	0,3
	NUBIFER R-5530 NUBIFER R-5531	94-98 94-98	3-6 3-6	0,3 0,2
	NUBIFER R-5540	94-98	3-6	0,3
	NUBIFER R-5580	94-98	3-6	0,3
	NUBIFER R-4370	86-90	3-5	0,4
	NUBIFER Y-5010 NUBIFER Y-5011	83-86 83-86	6-7 6-7	0,9 0,3
	NUBIFER Y-5020 NUBIFER Y-5021 NUBIFER Y-5028	83-86 83-86 83-86	6-7 6-7 5-6	0,3 0,2 0,3
	NUBIFER NB-4950	93-96	4-7	0,6

% Fe Metal (free) NCF-34	% Residuo en Tamiz, 44μ ASTM D185	Absorción Aceite (g/100g) Oil Absorption (g/100g) ASTM D281	Peso Específico (g/cm³) Specific Gravity (g/cm³) ASTM D133	% Sales Solubles % Soluble Salts ASTM D2448
<0,004	0,03	23	5	0,3
<0,004	0,03	20	4,9	0,3
<0,004	0,03	25	4,9	0,3
<0,004	0,03	20	4,9	0,3
<0,004	0,03	18	5	0,3
<0,004	0,03	19	5	0,3
<0,004	0,03	19	4,9	0,3
<0,004	0,03	19	4,9	0,2
<0,004	0,1	41	4,2	0,5
<0,004	0,03	34	4,1	0,3
<0,004	0,03	33	4,1	0,3
<0,004	0,03	33	4,1	0,3
<0,004	0,03	33	4,1	0,3
<0,004	0,03	33	4,1	0,3
<0,004	0,03	33	4,1	0,4
<0,004	0,12	24	4,6	0,4

NUBICROM

Óxido de Cromo Verde
Chrome Oxide Green

		Cr ⁶⁺ ISO 6713	% Humedad % Moisture ASTM D280	Tamaño Partícula (μ) Particle Size (μ) NCF-45
	SMM-4	<100 ppm	0,4	0,43
	SMM-6 NUBICROM 02	<100 ppm <100 ppm	0,4 0,3	0,38 0,41
	SMM-7	<100 ppm	0,3	0,44

NUBICOAT

Azul Ultramar
Ultramarine Blue

	Resistencia al Ácido Acid Resistant NCF-35	Resistencia al Calor (°C/°F) Heat Resistant (°C/°F) NCF-33	Resistencia al Alcalí Alkali Resistance NCF-35
	1	662/350	5
	4	662/350	5

NUBIFER K series

Ferritas de Zinc
Zinc Ferrites

	Resistencia al Calor (°C/°F) Heat Resistant (°C/°F) NCF-33	% Humedad % Moisture ASTM D280
	300/572	0,2
	500/260	0,2
	500/260	0,2

% Residuo en Tamiz, 44 μ ASTM D185	Absorción Aceite (g/100g) Oil Absorption (g/100g) ASTM D281	Peso Específico (g/cm ³) Specific Gravity (g/cm ³) ASTM D133	% Sales Solubles % Soluble Salts ASTM D2448
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0,03	13	5,1	0,3
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0,05	13	5,1	0,3
0,005	13	5,1	0,3

0,03	13	5,1	0,3
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Resistencia a la Luz NCF-32	% Residuo en Tamiz, 44 μ ASTM D185	Absorción Aceite (g/100g) Oil Absorption (g/100g) ASTM D281	Peso Específico (g/cm ³) Specific Gravity (g/cm ³) ASTM D133	% Sales Solubles % Soluble Salts ASTM D2448
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8	0,01	37	2,35	0,41
8	0,01	36	2,35	0,41

Tamaño Partícula (μ) NCF-45	% Residuo en Tamiz, 44 μ ASTM D185	Absorción Aceite (g/100g) Oil Absorption (g/100g) ASTM D281	Peso Específico (g/cm ³) Specific Gravity (g/cm ³) ASTM D133
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0,4	0,04	32	5
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0,4	0,04	32	5
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0,4	0,04	32	5
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Resistencia a la Luz
Light Fastness
NCF 32

% Residuo en Tamiz, 44μ
% Sieve Residue, 44μ
ASTM D185

Amarillos de Cromo y Naranjas de Molibdeno
Chrome Yellows & Molybdate Oranges

	NR-34	7	0,03
	NL-35	6-7	0,03
	NRC-36	7-8	0,03
	NS-36	8	0,03
	NL-38	5-6	0,03
	NRC-38	7-8	0,03
	NS-38	8	0,03
	AR-70	6-7	0,03
	AD-74	7	0,03
	RM-74	6	0,03
	AS-73	7-8	0,03
	AD-81	7	0,03
	ARS-82	8	0,01
	AD-83	6-7	0,03
	ARC-83	6-7	0,03
	AL-90	3	0,03
	ARC-89	5	0,03
	AL-89PP	4	0,03

Absorción Aceite (g/100g) ASTM D281	Peso Específico (g/cm ³) ASTM D133	% Sales Solubles % Soluble Salts ASTM D2448
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25	5,5	0,8
18	5,6	0,49
22	5,5	0,8
29	5,5	1,5
22	5,6	0,8
22	5,5	0,8
27	5,5	1,5
35	5,4	0,2
17	5,6	0,6
34	5	0,24
25	5,4	0,7
20	5,6	0,6
27	5,4	0,51
25	5,6	0,6
23	5,4	0,6
22	5,6	0,57
28	5,4	0,32
24	5,6	0,8

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Nubiola sólo se responsabiliza del cumplimiento de aquellos parámetros certificados en su Hoja Técnica de Especificaciones. Nubiola no se hace responsable de cualquier uso/manipulación inapropiados, así como de condiciones de almacenamiento inadecuadas, que puedan modificar las especificaciones certificadas de nuestros productos y/o que supongan un riesgo para la salud humana o el medio ambiente.

Debido a la existencia de multitud de formulaciones, procesos de fabricación y usos finales, Nubiola recomienda encarecidamente a sus clientes la realización de ensayos previos siguiendo su metodología interna y las comprobaciones pertinentes para así determinar la idoneidad de nuestros productos y el cumplimiento con las directrices legales.

Nubiola can only guarantee those certified parameters in the Specification Data Sheet of our products. Nubiola is not responsible for any misuse and/or inappropriate handling or storing conditions that may act to the detriment of certified specifications of our products or pose a risk to human health or the environment.

Due to the fact that there are a multitude of formulations, manufacturing processes and end uses, Nubiola strongly recommends that customers perform previous tests under their own testing program and carry out appropriate verifications in order to determine the ultimate suitability of our products and observe existing laws and legislation.



ISO 9001:2000



NUBICEM

Ultramarine Blues specifically
designed for cementitious
formulations



nubiola

our passion your colors



nubiola

our passion your colors

NUBICEM



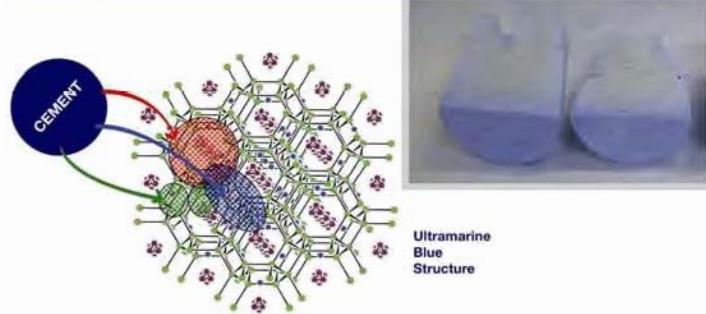
Why not in Ultramarine Blue?

An Ultramarine Blue structure alteration takes place during the setting of the cement due to several chemical reactions*, where the pigment loses its color.

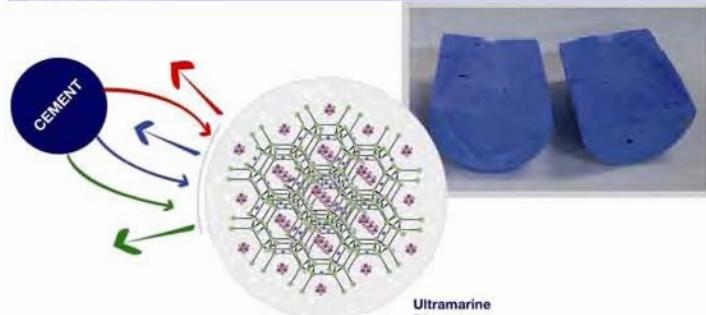
The new encapsulation technology of the Nubicem range, specifically developed for cementitious products, keeps all Ultramarine Blue properties and its unique color intact by preventing the cementitious matrix attack on the Ultramarine Blue particle.

*Cementitious Matrix Interaction

Conventional Ultramarine Blue



Nubicem



Destruction of the Ultramarine Blue cage with oxidation of the chromophore (S_3)



Calcium/Sodium ion exchange

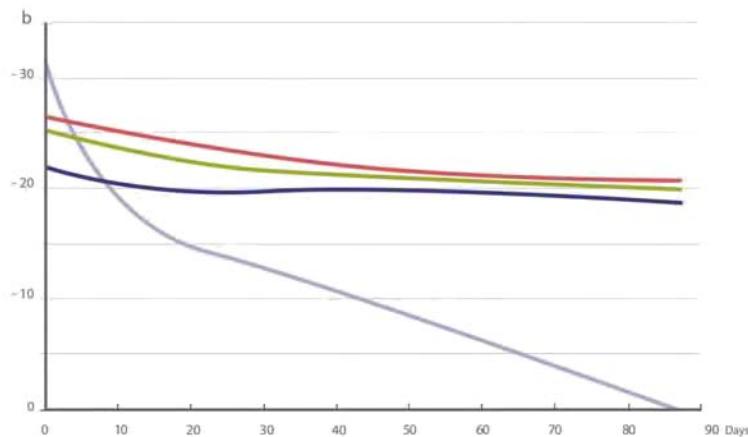


Chemical reaction between calcium hydroxide + calcium aluminum silicate and Ultramarine Blue

NUBICEM technical tests

ACCELERATED OUTDOOR EXPOSURE TEST¹

White cement BLI 52.5R – water / cement 0.5 – cement / sand 1:3; 5% pigment - Siliceous sand (CEN-NORMSAND DIN EN 196-1). No water-proofing admixture or redispersible powder used.



Setting 24h 20°C 95%HR
Curing 7 days HR 100%

QUV test
UV-B (313nm)
ISO 4892-3
1 cycle:
5h radiation – 40°C
1h condensation – 50°C
4 cycles a day

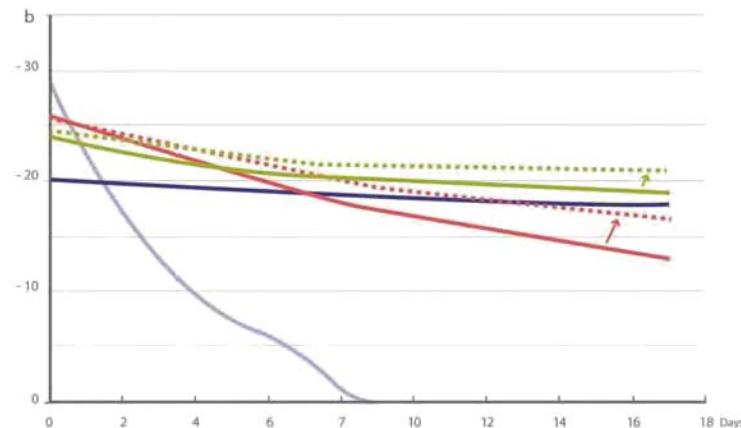
NUBICEM B-201
Pigment Blue 28 - Cobalt Blue
NUBICEM B-101
Conventional UHMW

Color does not significantly change after 83 days* of accelerated outdoor exposure.

* 83 days is equivalent to the radiation of 10 years' Light exposure at room temperature.

ACCELERATED RAINFALL SIMULATION TEST¹

White cement BLI 52.5R – water / cement 0.5 – cement / sand 1:3; 5% pigment - Siliceous sand (CEN-NORMSAND DIN EN 196-1). No water-proofing admixture or redispersible powder used.



Setting 24h 20°C 95%HR
Curing 7 days HR 100%

Artificial Rainfall Test
1 cycle:
2h artificial rain
4h drying at room T
4 cycles a day

■ ■ ■ results using hydrophobic
admixtures or redispersible powder
NUBICEM B-201
Pigment Blue 28 - Cobalt Blue
NUBICEM B-101
Conventional UHMW

Color does not significantly change after 18 days* of accelerated rainfall simulation. Although a better performance is observed in Nubicem B-201

*18 days is equivalent to 10 years in North-West Spain (annual rainfall 1388 mm) and 86 years in Southern Spain (annual rainfall 200 mm).

¹Test done by Instituto de la Construcción Eduardo Torroja – CSIC Madrid.

NUBICEM range

Nubicem B-101

Ultramarine Blue

Recommended for indoor use in a wide range of applications, as well as for outdoor applications when the contact with water is not severe, in dry areas or when the formulations are highly hydrophobic.

Nubicem B-201

Ultramarine Blue Modified with Cobalt Blue

Recommended for all kinds of indoor and outdoor applications; it provides an added touch for your most demanding applications.

key BENEFITS

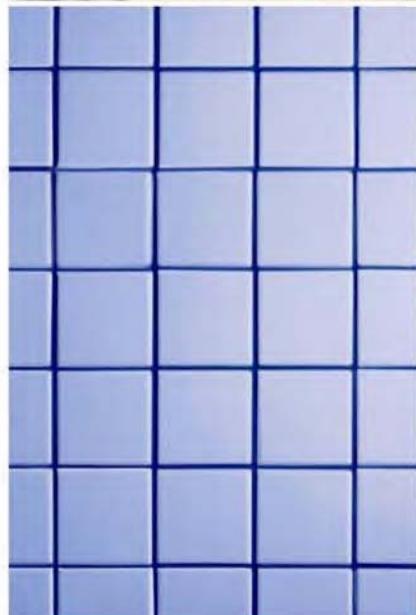
New blue color that gives you greater flexibility in architecture design

The most cost effective Blue coloration

Less dosage / higher strength compared to Pigment Blue 28 (Cobalt Blue)

Possibility of using it in color formulations without raising the formulation price

White correction effect to avoid the yellow undertone of white color



APPLICATIONS

Colored mortar / Stucco / Plaster

Colored Concrete

(Ready-Mix Concrete, Pre-Cast Concrete)

Colored grout joints for ceramic tiles

Cementitious floors / roads

Suitability for non-cementitious formulations too:

- Highly-alkaline coatings
- Coatings over highly alkaline substrates
- Formulations based on lime



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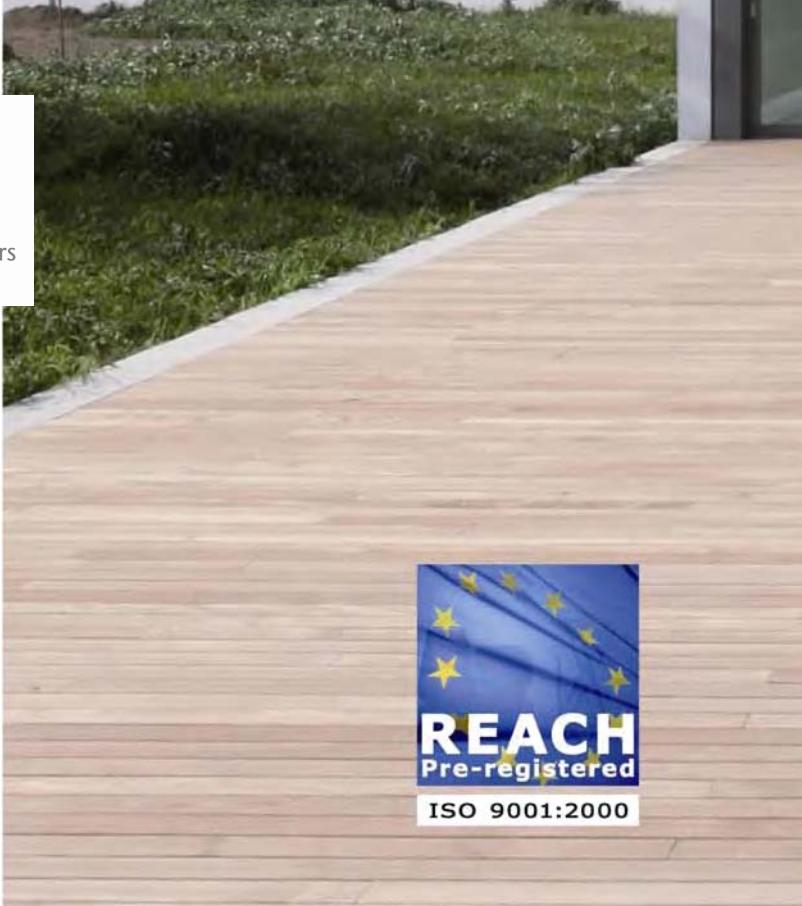
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Disclaimer for commercial products

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Due to the fact that there are a multitude of formulations, manufacturing processes and end uses, Nubiola strongly recommends that customers perform previous tests under their own testing program and carry out appropriate verifications in order to determine the ultimate suitability of our products and observe existing laws and legislation.

March, 2009



NUBIROX MPL-100

“ARE YOU GETTING YOUR MONEY’S WORTH OUT OF HIGH PRICED ORGANIC INHIBITORS?”

Observe NUBIROX Technology...

Accelerated Weathering Testing

MAINCOTE HG-86

336 Hrs. Salt Spray Testing (ASTM B-117)
Cold Rolled Steel/ ~1.7 Mils. D.F.T

AQUAMAC 705

336 Hrs. Salt Spray Testing (ASTM B-117)
Cold Rolled Steel/ ~1.7 Mils. D.F.T

MPL 100
5% by T.F.W.



Blank Control



Blank Control

MPL 100
3% by T.F.W.

AQUAMAC 705
150 Hrs. Salt Spray Testing (ASTM B-117)
Blasted Hot Rolled Steel/ ~2.5 Mils. D.F.T



MPL 100
5% by T.F.W.

Hi-Gloss

Multi-purpose

Cost-Effective

Innovative

“Pour on the Performance, Take out the Cost”



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NUBIROX MPL-100

**"TAKE THE HYBRID ROAD TO YOUR
W/B GLOSS D.T.M PROTECTION"**

Observe NUBIROX Technology...

Flash Rust Inhibition Testing

MPL 100

3% by T.F.W.



MPL 100

3% by T.F.W.



Blank Control



MAINCOTE HG-86
Blasted Hot Rolled Steel/ ~5 Mils. Wet
After 1 hour dry time

Blank Control



AQUAMAC 705
Blasted Hot Rolled Steel/ ~5 Mils Wet
After 1 hour dry time

- Hi-Gloss*
- Multi-purpose*
- Cost-Effective*
- Innovative*

**"Nubirox MPL-100 is the New Hybrid in Town of
Lower Cost Effective Liquid Inhibitors"**

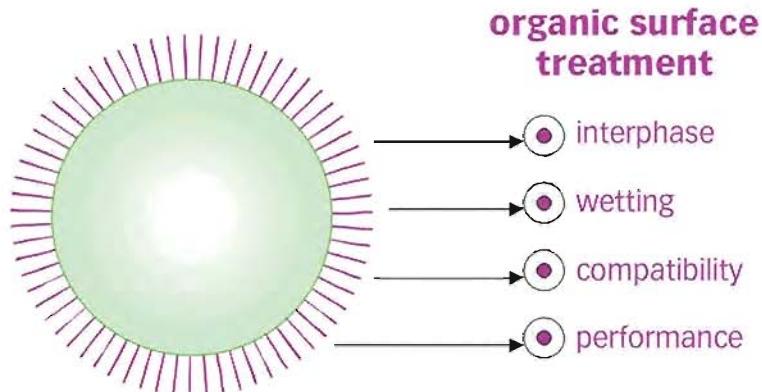


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Nubirox 302

a NUBIROX 300 Series product



NUBIROX 302: Organophilized Calcium Strontium Phosphosilicate

This product is an organic surface treated Zinc Free pigment designed to increase anticorrosive efficiency and performance in a wide variety of paint systems.

Zinc Free Non-Toxic Anticorrosive Pigment



FEATURES & BENEFITS

Nubirox 302 has been developed to be a high performance and compatible anticorrosive pigment. The organic surface treatment helps its particles from agglomerating. Furthermore, it modifies the pigment-blinder Interphase improving the wetting properties, widening the binder's compatibility and enhancing its performance. This pigment replaces conventional zinc phosphate in most cases.



*Salt Spray test: 6% anticorrosive pigment
WB Styrene-Acrylic System. DFT: 60 μ
356 hours ASTM B-117*



*Salt Spray test: 6% anticorrosive pigment
SB 2K Epoxy-Polyamide System. DFT: 60 μ
694 hours ASTM B-117*

RECOMMENDATIONS

Nubirox 302 can be used in a wide variety of solvent and water based systems, showing high binder compatibility. Good performance in some acidic binders and epoxy resins.
It performs in urethanes and in binders where the reactivity of some pigments containing zinc can be a problem.

SB Alkyds	●●●
SB Epoxies	●●●
SB Urethanes	●●●
Alkyd Emulsions	●●●
WB Soluble Alkyds	●●●
WB Epoxies	●●
WB Urethanes	●●●
Acrylic Emulsions	●●●
Wash Primers	●●●

●●● Suitable ●● Acceptable ● Possible use

Description

Organophilized Calcium Strontium Phosphosilicate.

Appearance

White micronized powder.

Typical data

Specific gravity:	2.92 g/cm ³
Loss on ignition 550 °C:	4.1 %
Sieve residue 44 μ :	< 0.2 %
pH:	10.25
Conductivity:	328 μ S/cm
Oil absorption:	45 g/100 g pigment
Average particle size:	1.03 μ

Typical values

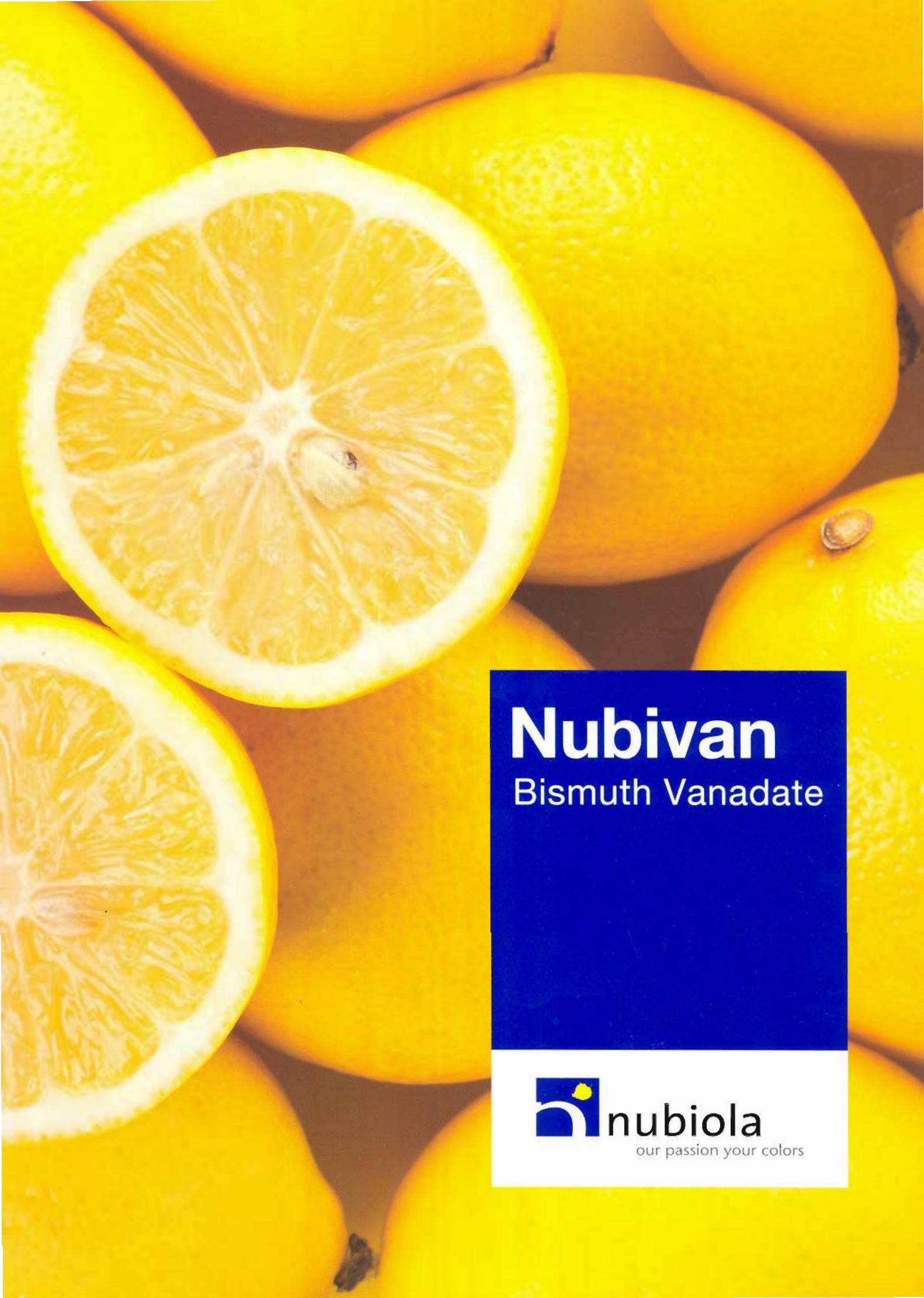
Use levels

Depending on the binder system (and the cost-performance required): 4 - 8% pigment volume in dry film.

Packaging

15 Kg bag.

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Nubivan
Bismuth Vanadate



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Nubivan Y-901

Nubivan Y-901 is Nubiola's greenish yellow Bismuth Vanadate (BiVO_4 , C.I. 771740, PY 184). It is a non-classified as hazardous Inorganic Pigment.

Nubivan Y-901 combined with Organic Pigments allows developing high gloss, bright and opaque yellow, red, orange and green color shades.

ADVANTAGES:

- › High gloss and brightness
- › Opaque
- › Excellent light and weather fastness
- › Very easy to disperse
- › Excellent acid and solvent fastness
- › Good alkali fastness
- › Suitable replacement for Chrome Yellows and Molybdate Oranges in combination with Organic Pigments



TECHNICAL DATA:

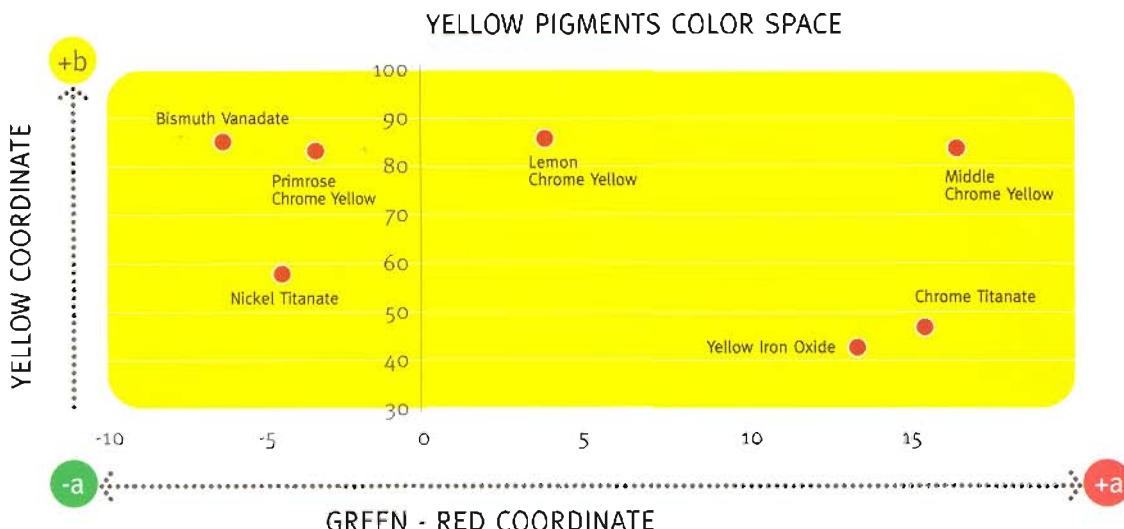
Guiding Color Shade NCF - 12 ⁽¹⁾		Color Tolerance, ΔE NCF - 12 ⁽¹⁾		Tinting Strength (%) NCF - 12 ⁽¹⁾	Sieve Residue, 45 μm (%) ASTM D185	Oil absorption (g/cm ³) ASTM D281	Specific gravity (g/cm ³) ASTM D153	pH ASTM D1208	Dispersibility (Hegman) NCF-99 ⁽³⁾	Heat fastness (°C / °F) ⁽⁴⁾
Full Shade	Reduced Shade ⁽²⁾	Full Shade	Reduced Shade ⁽²⁾							
		< 1,5	< 1,5	100 ± 5	< 0,1	27 ± 5	5,7	6-8	6,5	220 / 428

(1) NCF-12 is Nubiola's color control method in coatings (solvent base alkyd)

(2) Reduced Shade refers to 1:5 TiO_2 ratio

(3) NCF-99 is Nubiola's method to determine dispersibility

(4) 220 °C, 5 min

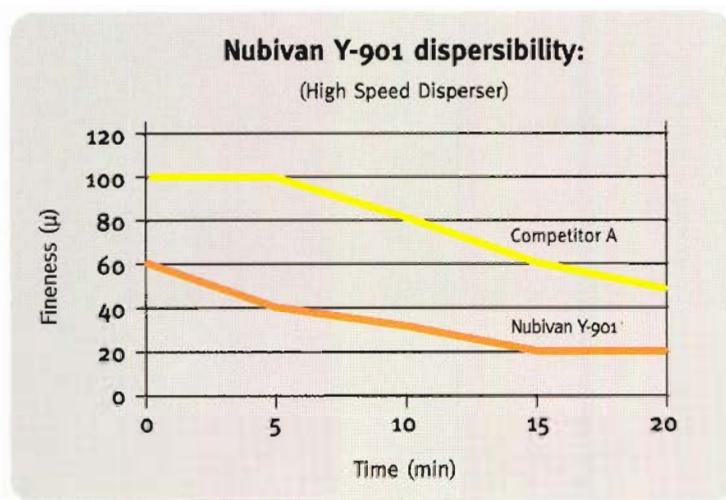


Nubivan Y-901 for COATINGS

KEY BENEFITS:

Dispersibility

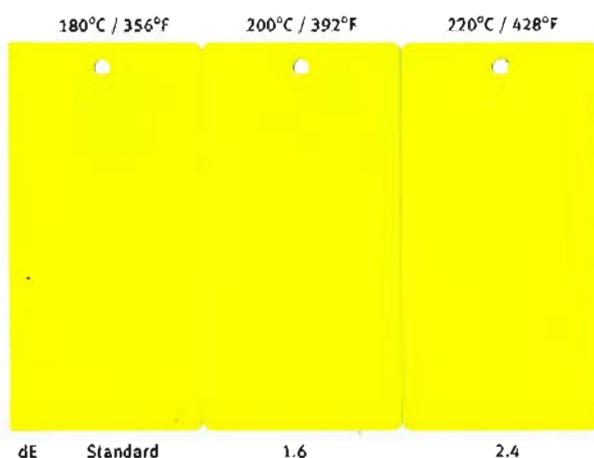
A very fine particle dispersion can be achieved in a short time with Nubivan Y-901, exceeding the result given by other competitor's products.



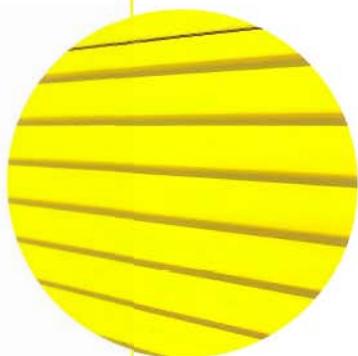
Dispersibility test performed according to Nubiana's internal method NCF-8a (solvent base long oil alkyd coating ground in a high speed disperser at 12,5 m/s peripheral speed).

Heat Resistance

Nubivan Y-901 allows formulating powder, coil and high temperature curing coatings without showing noticeable color changes.



Heat resistance test performed on a polyester powder coating in full shade (Curing time: 12 min).



USES:

- Suitable for:**
- › All water base systems
 - › All solvent base systems
 - › Limited use in acid curing systems

APPLICATIONS:

- › Decorative (including tinting systems)
- › Industrial
- › Automotive OEM
- › Powder
- › Coil

Nubivan Y-901 for PLASTICS



KEY BENEFITS:

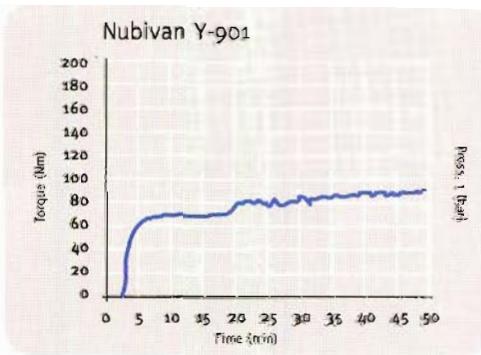
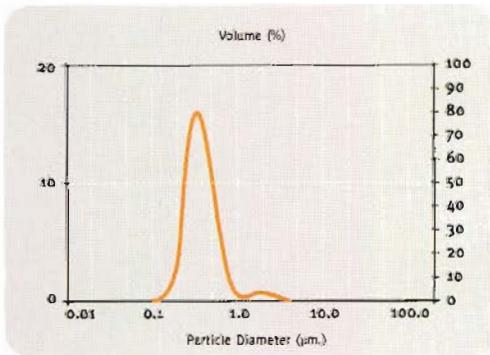
Dimensional Stability

The inorganic nature of Nubivan Y-901 allows it to show very good dimensional stability in comparison to Organic Yellows e.g. PY 138, PY 180, PY 183.



Filterability

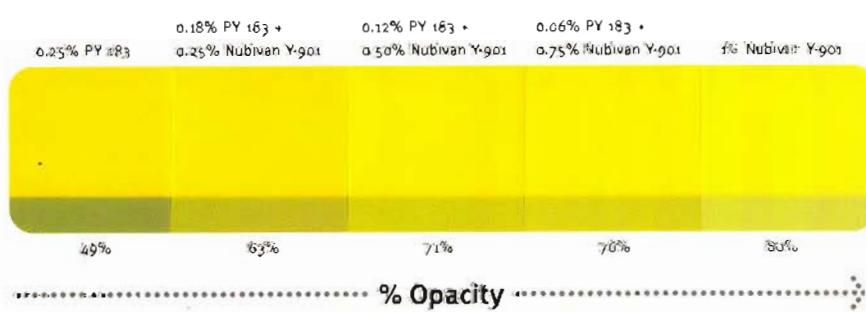
Nubivan Y-901 is a very easy-to-disperse pigment. Filter test value ($20\text{ }\mu$) is ca. 1 bar/g.



Test according to EN 13900-5 (5% pigment loading in LDPE)

High compatibility with Organic Pigments to obtain bright and opaque colors

Nubivan Y-901 provides opacity to Organic Pigments whilst maintaining very bright colors.



Calendered LDPE, 0.5mm thickness



USES:

Suitable for:

- > LDPE/LLDPE
- > HDPE
- > PVC
- > PP (up to 220°C)

APPLICATIONS:

- > Injection-molding
- > Extrusion
- > Blow-molding
- > Fibers

Nubivan Y-901

APPLICATIONS:



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NORTH AMERICA

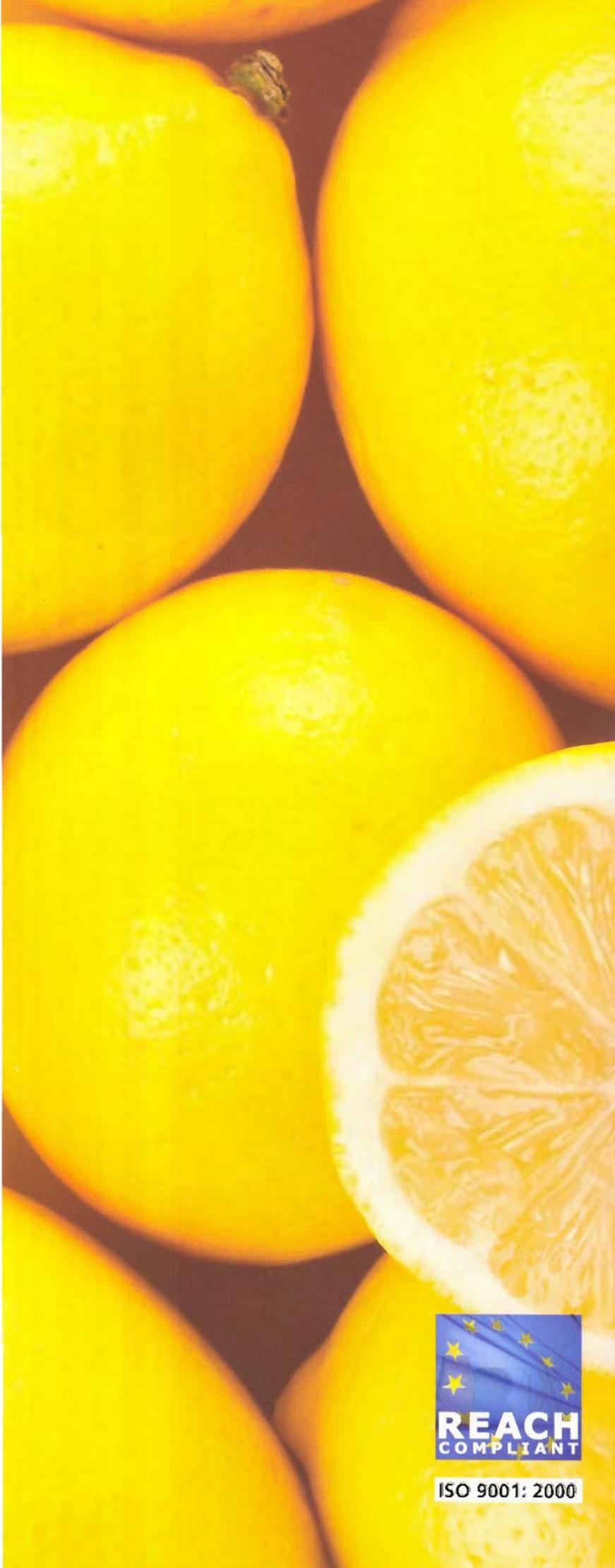
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March, 2011



ISO 9001: 2000