

EMD  
PERFORMANCE  
MATERIALS

# IMPOSSIBLE to ignore

XIRALLIC® NXT LEONIS GOLD  
PRODUCT INFORMATION



Xirallic® **NXT**



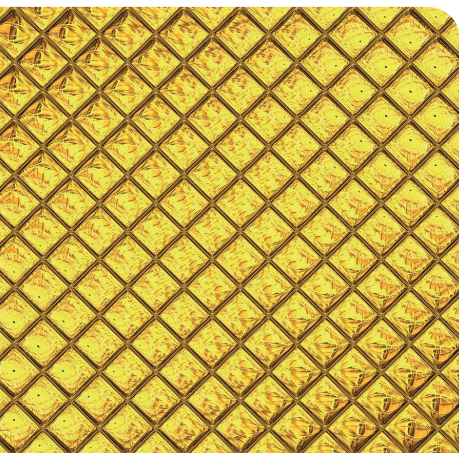
# MAJESTIC ELEGANCE

- First masstone gold Xirallic® pigment
- High chroma
- Highest sparkle within the Xirallic® pigment family
- Good hiding power



# XIRALLIC® NXT LEONIS GOLD

Its exceptionality is instantly recognizable. Pure energy, a majestic appearance and a powerful character unite to create a dynamic whole and leave no one untouched. Xirallic® NXT Leonis Gold combines a spirited play of colors with exceptional life. It enables an unprecedented experience of new styling in previously uncharted color spaces.

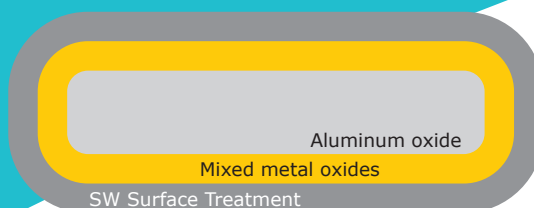


## INSPIRING BRILLIANCE, FASCINATING SPARKLE.

**Xirallic® NXT Leonis Gold awakens fierce emotions with its unexpected intensive golden sparkle.**

Because of its matchless clarity and depth, this unique effect pigment creates accents of the highest level, which the eye perceives as a fascinating interplay of color and sparkle. An effect that creates a vivacious appearance and lends a polished elegance to its application.

## inspiration of deep gold

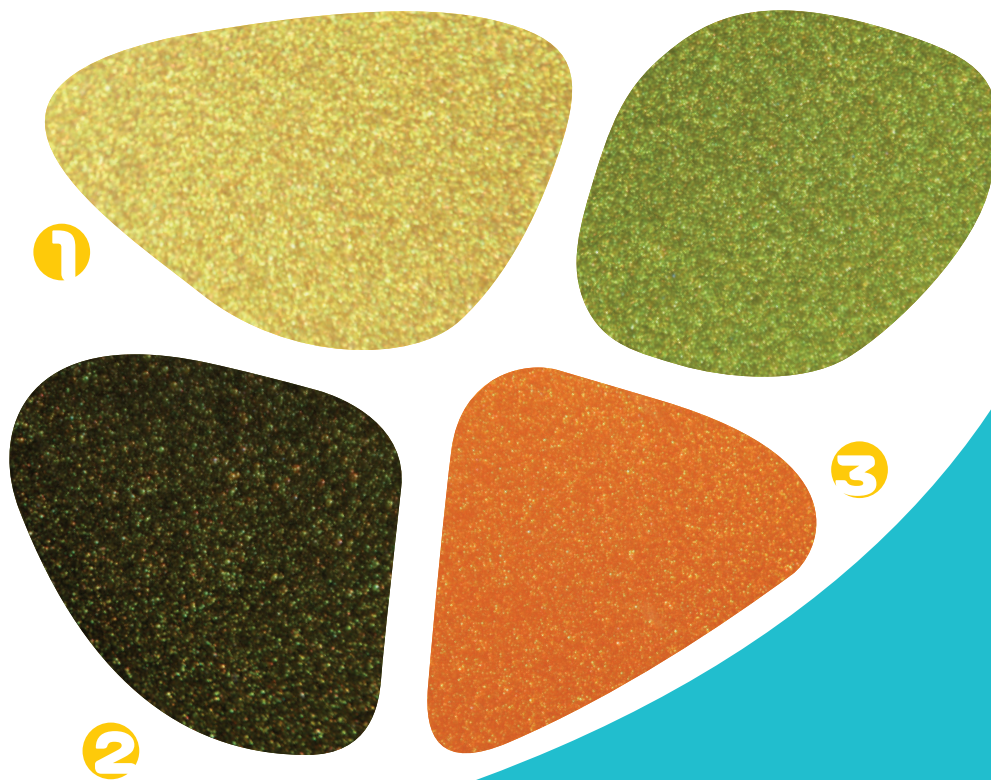


**Schematic composition** of Xirallic® NXT Leonis Gold

## clear intensive sparkle

### Application

Xirallic® NXT M260-30 SW Leonis Gold can be used in all customary outdoor and indoor applications for lacquers or other application fields for effect pigments. We hold extensive patent protection for all Xirallic® pigments which covers both the classic Xirallic® pigments and the new Xirallic® NXT generation and applies to single-pigment applications as well as to mixtures with various other effect or color pigments.



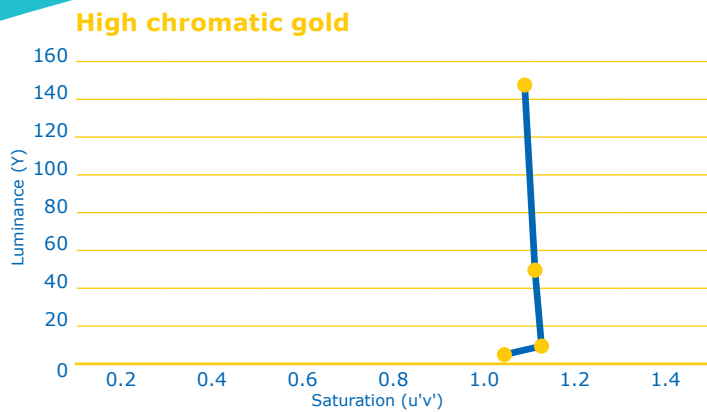
1) 100.0% Xirallic® NXT Leonis Gold on white background  
PMC<sup>1</sup> = 18.0 %

2) 83.7% Xirallic® NXT Leonis Gold  
16.3% Carbon Black on white background  
PMC<sup>1</sup> = 21.5 %

3) **Layer 1**  
RAL 9003 signal white

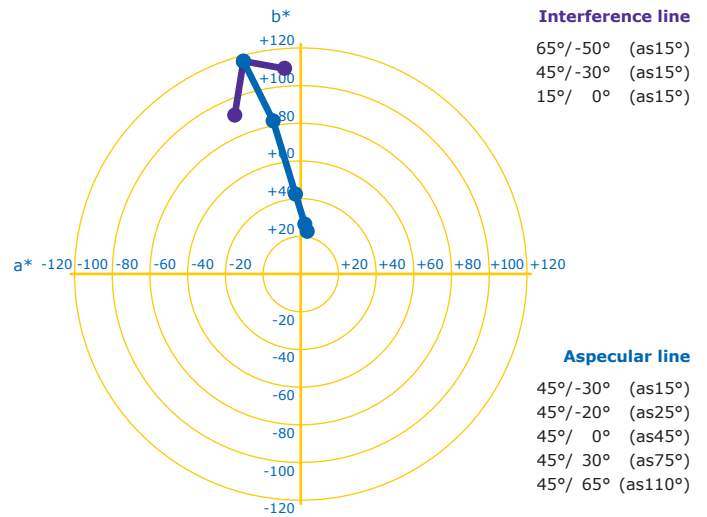
**Layer 2**  
56.7% Xirallic® NXT Leonis Gold  
39.7% Irgazin® Yellow 2RLT<sup>2</sup>  
3.6% Cromophthal® Red A2B<sup>3</sup>  
PMC<sup>1</sup> = 14.1 %

4) 68.1% Xirallic® NXT Leonis Gold  
2.2% Xirallic® NXT Panthera Silver  
14.7% Irgazin® Yellow 2RLT<sup>2</sup>  
9.7% Fanchon® Fast Yellow Y-5688<sup>4</sup>  
3.3% Heliogen® Blue L 7460<sup>5</sup>  
2.0% Sicotrans® Red L 2818<sup>6</sup>  
on white background  
PMC<sup>1</sup> = 22.6 %

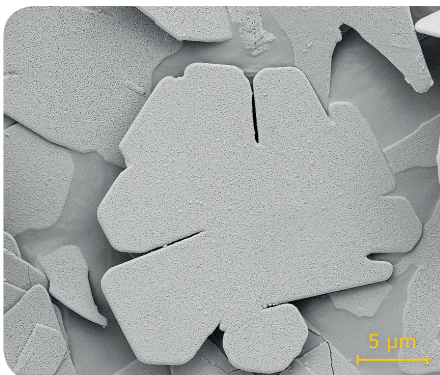


**Luminance and Saturation** in dependence of the aspecular angles (From top to down with decreasing Y: 45°/as15°, 45°/as25°, 45°/as45°, 45°/as75°).

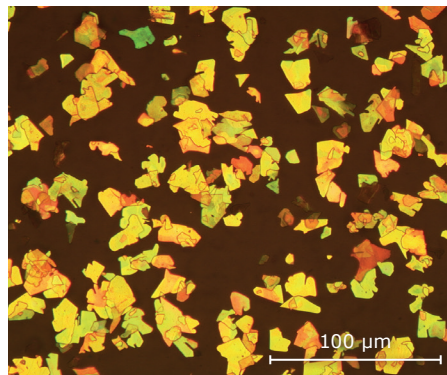
### Coloristic behaviour



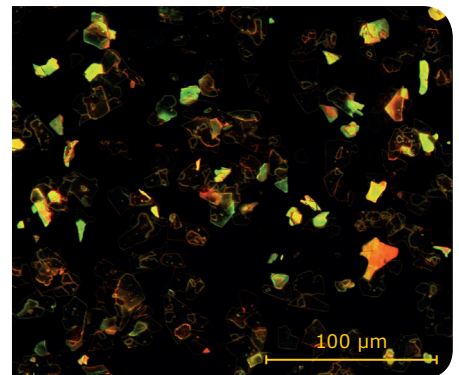
**a\*, b\* Color coordinates of a masstone coating**  
(PMC<sup>1</sup>= 18%, coating thickness 15µm, on a black substrate), angles marked according DIN 6175-2. Instrument: ETA FX11.



Typical scanning electron microscope image of Xirallic® NXT M260-30 SW Leonis Gold



Light microscope bright field image (opt. magnification 200x) of Xirallic® NXT M260-30 SW Leonis Gold particles



Light microscope dark field image (opt. magnification 200x) of Xirallic® NXT M260-30 SW Leonis Gold particles



## PRODUCT DATA

Ordering Information		Positioning	
Product line	Xirallic® NXT	Color	Gold
Nomenclature	M260-30 SW	Sparkle	High
Name	Leonis Gold	Hiding power	Semi-transparent
Item No.	1.58225	Surface treatment	SW
Package size	150 g, 1 kg, 20 kg	Preparation	–

## TECHNICAL DATA

Physical Properties	Value	Method	Remark
Form	Free-flowing powder		
Density	3.8 g/ml	DIN-EN ISO 787-10	
Bulk density	39 g/100 ml	DIN 53466	
Oil absorption	62 g/100 g	DIN-EN ISO 787-5	
Heat stability	≥ 200 °C	In-house method	30 min. N <sub>2</sub> -atmosphere
Water solubility	0.03 %	In-house method	Practically insoluble
Electrical conductivity	13 µS/cm	DIN-EN ISO 787-14	10 % aqueous suspension
pH-value	7.1	DIN-EN ISO 787-9	10 % aqueous suspension
Particle size distribution	5 – 30 µm	ISO 13320-1	
d10, d50, d90	9.1, 18.8, 34.1 µm	ISO 13320-1	

## WEATHERING DATA<sup>7</sup>

Test	Test Conditions	Test Results
Humidity resistance test DIN EN ISO 6270-2	PMC <sup>1</sup> : 2.5 % Xirallic® NXT M260-30 SW Leonis Gold Duration: 240 h Temperature: 40 °C Relative humidity: 100 %	Gloss after 24 h: 100 % DOI after 24 h: 100 % Cross hatch after 1 h: 0
Accelerated weathering SAE J 2527	PMC <sup>1</sup> : 4.0 % Xirallic® NXT M260-30 SW Leonis Gold black reduction Duration: 4000 h	Gloss after 4000 h: 96.0 % Color change ΔE after 4000 h <sup>8</sup> : 25°/1.1; 45°/0.8

<sup>1</sup> Pigment Mass Concentration (PMC),  
Mass pigment based on total mass coating  
<sup>2</sup> Irgazin® is a trademark of BASF SE,  
Ludwigshafen, Germany

<sup>3</sup> Chromophthal® is a trademark of BASF SE,  
Ludwigshafen, Germany  
<sup>4</sup> Fanchon® is a trademark of Sun Chemical  
Corporation, Parsippany, USA

<sup>5</sup> Heliogen® is a trademark of BASF SE,  
Ludwigshafen, Germany  
<sup>6</sup> Sicotrans® is a trademark of BASF SE,  
Ludwigshafen, Germany

<sup>7</sup> Test system: 2-coat OEM thermosetting paint  
<sup>8</sup> Measured with BYK-mac, BYK Gardner GmbH



Products are warranted to meet the specifications set forth on their label/packaging and/or certificate of analysis at the time of shipment or for the expressly stated duration. EMD provides information and advice on application technologies and relevant regulations based upon its current knowledge and opinion. EMD MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE REGARDING OUR PRODUCTS, THEIR APPLICATION OR ANY INFORMATION PROVIDED IN CONNECTION THEREWITH. EMD shall not in any event be liable for incidental, consequential, indirect, exemplary or special damages of any kind resulting from any use or failure of the products. Customer is responsible for and must independently determine the suitability of EMD's products for its products, intended use and processes. The foregoing information and suggestions are also provided without warranty of non-infringement as to intellectual property rights of third parties and shall not be construed as any inducement to infringe the rights of third parties. Customer shall be responsible for obtaining any applicable third party intellectual property licenses. All sales are subject to EMD's complete Terms and Conditions of Sale. Prices are subject to change without notice. EMD reserves the right to discontinue products without prior notice.

EMD, EMD Performance Materials, the vibrant M, Xirallic® NXT are trademarks of Merck KGaA, Darmstadt, Germany. All other trademarks pertain to their proprietors.

#### **EMD Performance Materials Corp.**

Pigments & Functional Materials  
Decorative Materials  
One International Plaza Suite 300  
Philadelphia, PA 19113, USA  
Phone +1 484-652-5642  
Fax +1 484-652-5665  
emd-pigments.com  
E-Mail: coatings@emdgroup.com  
A subsidiary of Merck KGaA, Darmstadt, Germany

#### **Merck KGaA**

Performance Materials  
Pigments & Functional Materials  
Decorative Materials  
Frankfurter Str. 250  
64293 Darmstadt, Germany  
Phone +49 (0) 6151 72-2198  
Fax +49 (0) 6151 72-7684  
emd-pigments.com  
E-Mail: coatings@emdgroup.com

#### **Merck Performance Materials Ltd.**

Pigments & Functional Materials  
Decorative Materials  
ARCO Tower, 5F  
8-1, Shimomeguro 1-chome  
Meguro-ku  
Tokyo 153-8927, Japan  
Phone +81 3 5434-4763  
Fax +81 3 5434-4708  
emd-pigments.com  
E-Mail: coatings@emdgroup.com  
A subsidiary of Merck KGaA, Darmstadt, Germany

