

EMD  
PERFORMANCE  
MATERIALS

# intense GOLD

Meoxal® Taklamakan Gold  
Product Information



 meoxal®

# be brilliant. impress

- High brilliance with outstanding saturation
- Elegant sparkle effects
- Unique flop behaviour
- Shelf life of two years
- Luminous metal pigments

# see the heat

Deserts - the pure fascination of extremes. Hostility in stark contrast to the vivid and graceful dance of magic power performed by thousands of little brilliant grains moved by the wind. One of the most beautiful amongst them is the Taklamakan Desert, a seemingly endless scenery of interplays between light and shadow. The brilliant color saturation and luminous slightly sparkling finish of Meoxal® Taklamakan Gold interprets this unique artwork of nature nearly perfectly.

With Meoxal® we have translated experience, innovation and inspiration into a new form of pigments based on aluminum flakes. The combination of metal oxides, new flake technology and patented intermediate layering know-how creates amazing brilliant effects. Meoxal® Taklamakan Gold enables a new range of effects and stylings, especially in the golden, green, red and brown color area.



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100.0% Meoxal® Taklamakan Gold  
PMC<sup>1</sup> in dry film 18.0%

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83.7% Meoxal® Taklamakan Gold  
16.3% Carbon Black  
PMC<sup>1</sup> in dry film 21.5%

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42.2% Meoxal® Taklamakan Gold  
54.9% C.I. Pigment Brown 25  
2.9% Carbon Black  
PMC<sup>1</sup> in dry film 23.7%

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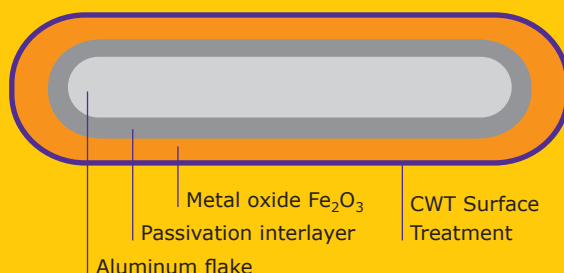
51.1% Meoxal® Taklamakan Gold  
23.3% Heliogen® Green L 9361<sup>2</sup>  
23.3% Heliogen® Green L 8605<sup>2</sup>  
2.3% Carbon Black  
PMC<sup>1</sup> in dry film 21.5%

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## APPLICATION

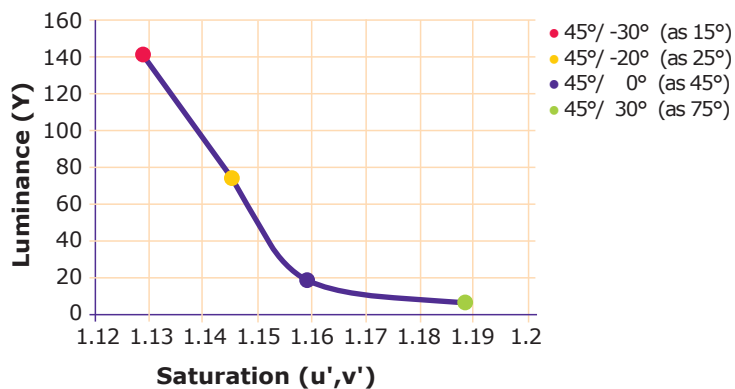
Meoxal® F120-30 CWT Taklamakan Gold is supplied as a paste, consisting of carbitol and 63% pigment. CWT stands for "Carbitol and Weather Treated" and is a specific surface treatment for this new class of pigments. CWT improves the incorporation into many paint systems, especially in waterborne systems for which no additional passivation process is required. It fulfills especially high demands for outdoor applications such as automotive coatings and other high-end paint applications.

Schematic composition of Meoxal® Taklamakan Gold



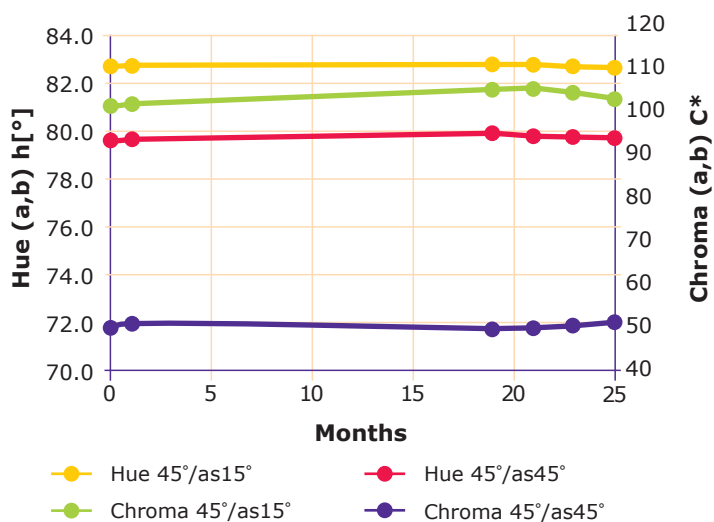


## Outstanding Saturation

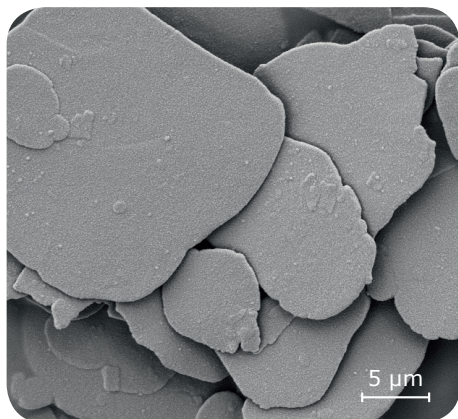


u', v' color coordinates of a fullshade coating (PMC<sup>1</sup> = 18%, coating thickness 15 µm, on a black substrate).<sup>5</sup>

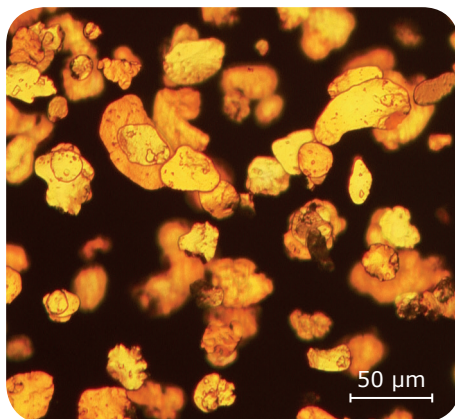
## Shelf Life of Two Years



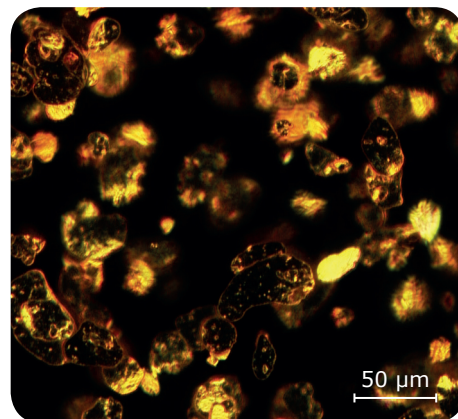
Hue and Chroma measured on fullshade panels over black, PMC<sup>1</sup> 18% (dry film), layer thickness of 15 µm



**Typical scanning electron microscope image**  
of Meoxal® F120-30 CWT Taklamakan Gold



**Light microscope bright field image**  
(opt. magn. 200x) of Meoxal® F120-30 CWT Taklamakan Gold



**Light microscope dark field image**  
(opt. magn. 200x) of Meoxal® F120-30 CWT Taklamakan Gold

## PRODUCT DATA

Ordering Information		Positioning	
Product line	Meoxal®	Color	Masstone gold
Nomenclature	F120-30	Sparkle	Color metallic effect
Name	Taklamakan Gold	Hiding power	Semi-transparent
Item No.	1.41183	Surface treatment	CWT
Package size	150 g, 1 kg, 15 kg	Preparation	Paste with 63% pigment

## TECHNICAL DATA

Physical Properties	Value	Method
Form	Paste	
Non volatile material	62–64%	In-house method
Bulk density	62 g/100 ml	In-house method
Flash point carbitol	94°C	
Ignition temperature carbitol	190–220°C	
Water solubility of the pigment	Insoluble	In-house method
Electrical conductivity of the aqueous suspension	≤100 µS/cm	In-house method
pH of the aqueous suspension (10%)	4–7	ISO 787-9
Particle size distribution <sup>3</sup>	5–30 µm	Laser diffraction
d10, d50, d90	9–12, 16–19, 27–33 µm	Laser diffraction

## WEATHERING DATA

Test	Test Conditions	Test Results
Humidity resistance test DIN EN ISO 6270-2 <sup>4</sup>	PMC <sup>1</sup> : 4.0% Meoxal® F120-30 CWT Taklamakan Gold Duration: 240 h Temperature: 40°C Humidity: 100%	<ul style="list-style-type: none"> <li>Gloss after 24 h (20°): 100.0%</li> <li>DOI after 24 h: 101.0%</li> <li>Cross hatch 1 h: 0</li> </ul>
Short term weathering SAE J 2527 <sup>4</sup>	PMC <sup>1</sup> : 4.0% Meoxal® F120-30 CWT Taklamakan Gold, black reduction Duration: 4000 h	<ul style="list-style-type: none"> <li>Gloss after 4000 h: 90.1%</li> <li>Color Change ΔE after 4000 h<sup>5</sup>: 25°/1.13; 45°/0.52</li> </ul>
Gassing stability	Waterborne OEM basecoat PMC <sup>1</sup> : 4.0% Meoxal® F120-30 CWT Taklamakan Gold Duration: 30 days Temperature: 40°C	<ul style="list-style-type: none"> <li>Developed gas: 6 ml</li> </ul>

<sup>1</sup> Pigment Mass Concentration (PMC): Mass pigment based on total mass coating

<sup>2</sup> Hellogen® is a trademark of BASF SE, Ludwigshafen, Germany

<sup>3</sup> 80% of particles within range

<sup>4</sup> Test System: 2-coat OEM thermosetting paint

<sup>5</sup> Measured with BYK-mac, BYK-Gardner GmbH



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