

sophisticated LUXURY

Colorstream® Mineral Red
Product Information

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ETERNAL RED SHIMMER

- > Intensive high chromatic red
 - > Bluish-red to neutral red color flop
 - > Retains its red color at all angles
 - > Extraordinary hiding performance

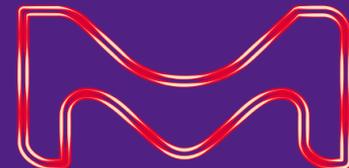
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W.589268 03/2023



Colorstream® Mineral Red

Redefine Luxury

The exceptional shimmering effect of Mineral Red takes full control of your attention when looking at it. It feels like we are breaking into clouds of ground crystals, where rays of light are dancing with a very fine precious powder. It seems impossible tracking the infinite number of lightrays being suddenly reflected back to our vision. It seems like they are massaging our retina. We hold our breath for a second and are completely overwhelmed by a feeling of sophisticated luxury. Mineral Red stands for a bluish-red color tone that redefines luxurious mondaine reds.

Mondaine styling opportunities

Colorstream® Mineral Red radiates luxury and attracts your attention with its powerful traits: intense, highly chromatic red, extraordinary hiding power and a bluish-red color highlight.

Schematic composition of Colorstream® Mineral Red



Application

Colorstream® F20-52 SW Mineral Red is equipped with our SW surface treatment. Therefore it is the perfect pigment for any outdoor application. The excellent performance guarantees a long-lasting intensive red for all application fields and various designs. The pigment is the perfect choice in liquid systems as well as in powder coatings.

100.0% Colorstream® Mineral Red
PMC¹ in dry film 18.0%
on white background



83.7% Colorstream® Mineral Red
16.3% Emperor® 2000²
PMC¹ in dry film 21.5%
on white background



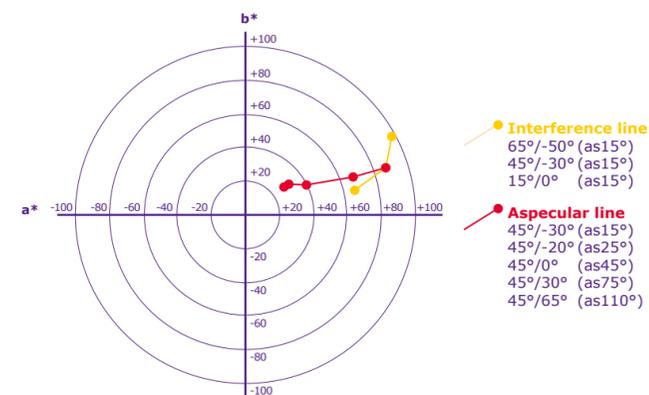
52.0% Colorstream® Mineral Red
20.4% Hostaperm® Red Violet ER 02³
25.7% Cinilex® Red SR3C⁴
1.9% Special Black 100⁵
PMC¹ in dry film 25.5%
on white background



35.4% Colorstream® Mineral Red
36.6% Xirallic® NXT Tigris Blue
19.3% Hostaperm® Red Violet ER 02³
7.5% Cinilex® Red SR3C⁴
1.2% Special Black 100⁵
PMC¹ in dry film 28.0%
on white background

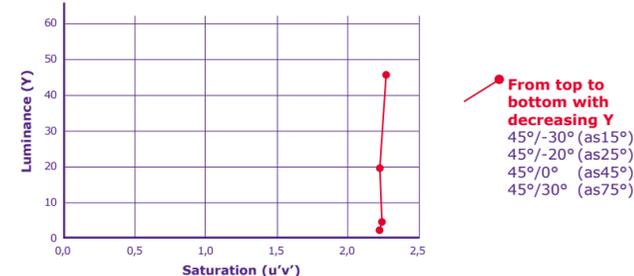


Coloristic behavior

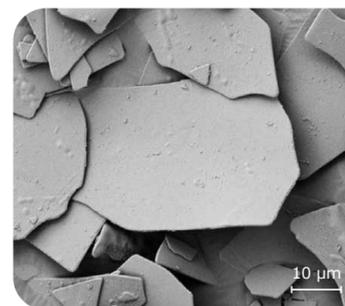


a*, b* Color coordinates of a masstone coating
(PMC¹ = 18%, coating thickness 15 µm, on a black substrate), angles marked according DIN 6175-2. Instrument: Gonio-Spectrophotometric Measurement System GCMS-4 by Murakami.

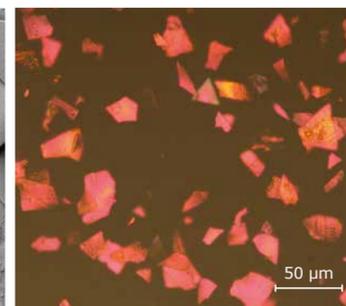
High chromatic red



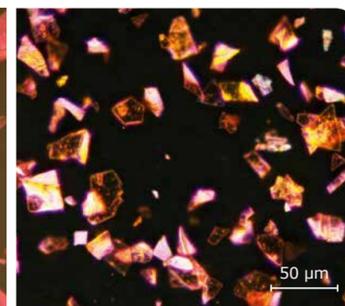
Luminance and Saturation in dependence of the aspecular angles



Typical scanning electron microscope image of Colorstream® F20-52 SW Mineral Red



Typical light microscope bright field image (opt. magnification 200x) of Colorstream® F20-52 SW Mineral Red



Typical light microscope dark field image (opt. magnification 200x) of Colorstream® F20-52 SW Mineral Red

details

PRODUCT DATA

Ordering Information		Positioning	
Product line	Colorstream®	Color	Masstone red
Nomenclature	F20-52 SW	Sparkle	Pearl Effect
Name	Mineral Red	Hiding power	Semi-transparent
Item No.	1.58270	Surface treatment	SW
Package size	150 g, 1 kg, 15 kg	Preparation	-

TECHNICAL DATA

Physical Properties	Value	Method	Remark
Form	Free-flowing powder	DIN-EN ISO 787-2	
Density	3.2 g/ml	DIN-EN ISO 787-10	
Bulk density	21 g/100 ml	DIN 53466	
Oil absorption	78 g/100 g	DIN EN ISO 787-5	
Heat stability	≤ 200 °C	Merck method	30 min. N ₂ -atmosphere
Water solubility	0.18%	Merck method	Practically insoluble
Electrical conductivity	9 µS/cm	DIN-EN ISO 787-14	10% aqueous suspension
pH value	6.8	DIN-EN ISO 787-9	10% aqueous suspension
Particle size distribution	5-40 µm	ISO 13320-1	
d10, d50, d90	9.5, 19.4, 34.5 µm	ISO 13320-1	

WEATHERING DATA⁶

Test	Test Conditions	Test results
Humidity resistance test DIN EN ISO 6270-2	PC ⁷ : 4.2% Colorstream® F20-52 SW Mineral Red Duration: 240 h, Temperature: 40°C Relative humidity: 100%	Gloss retention after 24 h (20°): 99.7% DOI after 24 h: 100.7% Cross hatch after 1 h: 0
Accelerated weathering SAE J 2527	PC ⁷ : 3.8% Colorstream® F20-52 SW Mineral Red black reduction Duration: 4000 h	Gloss retention after 4000 h: 100% Color change ΔE after 4000 h ⁸ : 25°/ 1.13; 45°/ 0.32

¹ Pigment Mass Concentration (PMC): Mass of pigment calculated on total solid content of coating

² Emperor® is a trademark of Cabot Corporation, USA

³ Hostaperm® is a trademark registered in many countries (Heubach Group)

⁴ Cinilex® is a trademark of Cinic Chemicals Europe Sarl, France

⁵ Special Black 100 is a product of Orion Engineered Carbons S.A, Luxembourg

⁶ Test system: 2-coat OEM thermosetting paint

⁷ Pigment Concentration (PC): Mass pigment based on total liquid coating

⁸ BYK-mac i, Byk Gardner GmbH

The information on this page is typical technical data to characterize the pigment. These values are not meant as specifications and they do not have binding character. The product specification is available separately, on request.