Mysterious Glow
Colorstream® Lava Red
Product Information
Red-hot intensity

- Intensive high chromatic red
- Extraordinary hiding performance
- Red to dark red color flop
The volcanic red of Colorstream® Lava Red shows a multitude of interweaving nuances and fascinating color gradations like the energetic beauty of flowing Lava. Its fascinating tonality and interwoven hue nuances that are brought out when light hits the surface create a one of a kind interplay of red excitement. Lava Red sets the scene for the pure emotion that is evoked by the swell force of elements.

How Colorstream® Lava Red manages to attract glances is no big mystery. Three powerful features come together in this unique pigment: intense, highly chromatic red, extraordinary hiding power and a red to dark red color flop.

Schematic composition of Colorstream® Lava Red

- Silicon Dioxide Flake
- Iron Oxide
- SW Surface Treatment

Application
Colorstream® F20-51 SW Lava 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.
Typical scanning electron microscope image of Colorstream® F20-51 SW Lava Red

Typical light microscope bright field image (opt. magnification 200x) of Colorstream® F20-51 SW Lava Red

Typical light microscope dark field image (opt. magnification 200x) of Colorstream® F20-51 SW Lava Red

**Coloristic behaviour**

*a*, *b* Color coordinates of a masstone coating
(PMC1 = 16.3%, coating thickness 15 μm, on a black substrate), angles marked according DIN 6175-2. Instrument: Datacolor FX 10 by Datacolor.

**High chromatic red**

Luminance and Saturation in dependence of the aspecular angles

From top to down with decreasing Y
45°/-30° (as15°)
45°/-20° (as25°)
45°/-20° (as25°)
45°/30° (as75°)
45°/65° (as110°)

Interference line
65°/-50° (as15°)
45°/-30° (as15°)
15°/ 0° (as15°)

Aspecular line
45°/-30° (as15°)
45°/-20° (as25°)
45°/-20° (as25°)
45°/30° (as75°)
45°/65° (as110°)
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>Value</th>
<th>Method</th>
<th>Remark</th>
</tr>
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<tbody>
<tr>
<td>Form</td>
<td>free-flowing powder</td>
<td>DIN-EN ISO 787-2</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>3.0 g/ml</td>
<td>DIN-EN ISO 787-10</td>
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<tr>
<td>Bulk density</td>
<td>21 g/100 ml</td>
<td>DIN 53466</td>
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<tr>
<td>Oil absorption</td>
<td>88 g/100 g</td>
<td>DIN EN ISO 787-5</td>
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<tr>
<td>Heat stability</td>
<td>≤ 200°C</td>
<td>In-house method</td>
<td>30 min. N2-atmosphere</td>
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<tr>
<td>Water solubility</td>
<td>0.04%</td>
<td>In-house method</td>
<td>Practically insoluble</td>
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<tr>
<td>Electrical conductivity</td>
<td>12 µS/cm</td>
<td>DIN-EN ISO 787-14</td>
<td>10% aqueous suspension</td>
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<tr>
<td>pH value</td>
<td>6.7</td>
<td>DIN-EN ISO 787-9</td>
<td>10% aqueous suspension</td>
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<tr>
<td>Particle size distribution</td>
<td>5-40 µm</td>
<td>ISO 13320-1</td>
<td></td>
</tr>
<tr>
<td>d10, d50, d90</td>
<td>9.5, 19.5, 36.4 µm</td>
<td>ISO 13320-1</td>
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### WEATHERING DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Conditions</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity resistance test</td>
<td>PMC: 4.0% Colorstream® F20-51 SW Lava Red</td>
<td>Gloss after 24 h (20°): 100%</td>
</tr>
<tr>
<td></td>
<td>Duration: 240 h, Temperature: 40°C</td>
<td>DOI after 24 h: 100%</td>
</tr>
<tr>
<td></td>
<td>Relative humidity: 100%</td>
<td>Cross hatch after 1 h: 0</td>
</tr>
<tr>
<td>Accelerated weathering</td>
<td>PMC: 4.0% Colorstream® F20-51 SW Lava Red black reduction</td>
<td>Gloss after 4000 h: 96%</td>
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<tr>
<td></td>
<td>Duration: 4000 h</td>
<td>Color change ΔE after 4000 h°:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25°/ 2.51; 45°/ 2.50</td>
</tr>
</tbody>
</table>

1 Pigment Mass Concentration (PMC): Mass pigment based on total mass coating
2 Perrindo® is a trademark of Sun Chemical Corporation, Parsippany, USA
3 Chromophtal® is a trademark of BASF SE, Ludwigshafen, Germany
4 Cinquasia® is a trademark of BASF SE, Ludwigshafen, Germany
5 Fanchon® is a trademark of Sun Chemical Corporation, Parsippany, USA
6 Test System: 2-coat OEM thermosetting paint
7 BYK-mac, Byk Gardner GmbH

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