**RD-METAL UNICOAT**

**DESCRIPTION OF THE PRODUCT**

**USE:**
Primer/Finish rust preventive coating for metal sheets and claddings.

**FEATURES:**
Single component coating for the protection of metallic objects. **RD-Metal Unicoat** is an excellent choice for the renovation of metallic objects located in low to moderate corrosive environments and can be applied directly on steel and weathered galvanized steel without having to blast the surface.

**RD-Metal Unicoat** is water-based, easy to handle, safe and has no fire risks. It is a fast-drying coating system that greatly reduces downtime during installation. Virtually odour free, it does not affect neighbouring occupants and can therefore be used in occupied buildings.

**RD-Metal Unicoat** is UV resistant, has a good resistance against weathering and can therefore be applied as primer and/or as finish. When applied by airless, **RD-Metal Unicoat** easily covers large flat surfaces with no overlaps and will protect the coated objects neat and tidy for numerous years. It is therefore an excellent, fast and easy renovation system for claddings and coated metal sheets.

**RD-Metal Unicoat** is part of the SCS – Single Coating System - product group.

**SUBSTRATES:**
Iron, steel, weathered galvanized steel (> 1 year)

**SYSTEMS**

<table>
<thead>
<tr>
<th></th>
<th>Wet film thickness in microns / mils</th>
<th>Dry film thickness in microns / mils</th>
<th>Consumption per m² / ft² per gallon</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Neutral interior atmosphere of a dry and heated building - C1</strong></td>
<td>200 / 8</td>
<td>95 / 3.8</td>
<td>0.20 L / 200</td>
<td>&gt; 15 years life expectancy</td>
</tr>
<tr>
<td>Primer/Finish</td>
<td><strong>RD-Metal Unicoat</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Atmosphere with low degree of pollution: Rural areas, unheated buildings where condensation may occur – C2</strong></td>
<td>190 / 7.7</td>
<td>90 / 3.6</td>
<td>0.19 L / 213</td>
<td>&gt; 15 years life expectancy</td>
</tr>
<tr>
<td>Primer</td>
<td><strong>RD-Metal Unicoat</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish</td>
<td><strong>RD-Metal Unicoat</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>190 / 7.7</td>
<td>90 / 3.6</td>
<td>0.38 / 106</td>
<td></td>
</tr>
<tr>
<td><strong>Urban and industrial atmospheres with moderate pollution, Coastal areas with low salt content, Indoor production areas with high humidity and some pollution – C3</strong></td>
<td>190 / 7.7</td>
<td>90 / 3.6</td>
<td>0.19 L / 213</td>
<td>&gt; 10 years life expectancy</td>
</tr>
<tr>
<td>Primer</td>
<td><strong>RD-Metal Unicoat</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish</td>
<td><strong>RD-Metal Unicoat</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>190 / 7.7</td>
<td>90 / 3.6</td>
<td>0.38 / 106</td>
<td></td>
</tr>
<tr>
<td><strong>Renovation of coated side walls made of metal sheets / claddings</strong></td>
<td>200 / 8</td>
<td>95 / 3.8</td>
<td>0.20 L / 200</td>
<td>&gt; 15 years life expectancy</td>
</tr>
<tr>
<td>Primer</td>
<td><strong>RD-Metal Unicoat</strong> (*)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish</td>
<td><strong>RD-Metal Unicoat</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>190 / 7.2</td>
<td>95 / 3.8</td>
<td>0.40 / 100</td>
<td></td>
</tr>
</tbody>
</table>

(*) In case of corroded surfaces or when the objects are located in a more corrosive atmosphere (C4 or C5), it is advised to use RD-Elastometal as a prime coat.
Aesthetical fresh-up:
A single coat is possible on previously painted surfaces in need of an aesthetic refreshment.

Risks of chemical spills, graffiti or nearby aggressive exhaust fumes/pollution:
The system can be top coated by one or two coats of RD-Hydrograff HP Clear High Gloss.

Indicated consumption is theoretical and does not consider potential losses during application. It can also be influenced by the porosity of the substrate.

**APPLICATION INSTRUCTIONS**

**APPLICATION CONDITIONS:**
Ambient temperature: minimum 5°C (41°F) – Optimal between 12° and 25°C (54° and 77°F).
Relative humidity: maximum 80%
Surface temperature must be minimum 3°C (5°F) above dew point.

**APPLICATION MEANS:**
Brush, roller or airless (nozzle size: 013–015)

**PREPARATION OF THE SUBSTRATE:**
The substrate must be clean: dry, degreased and dust free. Non adhering elements such as older coatings or rust must be removed.
Different types of surface preparation are possible:
1/ Remove rust manually or by power tool to ST2 – ISO 8501-1/SSPC SP2 or SP3.
3/ High pressure washing following SSPC SP12 WJ4.
Contact your RD Coatings representative in case of hesitation.

**DILUTION:**
Product is ready-for-use. Dilute with maximum 3% water when applying by airless or in warm weather conditions (> 25°C / > 77°F).

**DRYING TIME:**
(20°C – 68°F)
Touch dry: +/- 2 hours
Recoatable: +/- 4 hours

**CLEANING OF TOOLS:**
Water.

**SPECIFICITIES:**
Mix well before use.

**TECHNICAL DATA**

**FINISH:**
Satin +/- 15% +/- 5 (Gardner 60°)

**COLOURS:**
White, RAL, NCS and bespoke colours.
Available on RD Coatings dispensing system.

**DENSITY:**
Ca. 1,3 +/- 0,05 g/cm³

**SOLIDS CONTENT:**
In weight: 59% +/-2 (for white)
In volume: 47% +/-2 (for white)

**VISCOSITY:**
100 - 120 P (Brookfield 20RPM)

**VOC CONTENT:**
< 60 g/L

**FLASH POINT:**
Not flammable.

**STORAGE STABILITY:**
12 months: keep away from heat and frost
PACKAGING: 1 L – 2.5 L – 5 L – 20 L

NORMS AND TESTS

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Norms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt Spray</td>
<td>ISO 12944 / ASTM B117 / ISO 4628</td>
</tr>
<tr>
<td>Adhesion X-Cross Cut</td>
<td>ISO 2409</td>
</tr>
<tr>
<td>Adhesion Pull-Off Test</td>
<td>ISO 4624</td>
</tr>
<tr>
<td>Abrasion Resistance Taber</td>
<td>ASTM D4060</td>
</tr>
<tr>
<td>Pencil Hardness</td>
<td>ASTM D3363</td>
</tr>
<tr>
<td>QUV Test</td>
<td>ASTM D4587 / ASTM G53 / ISO 11507</td>
</tr>
</tbody>
</table>

SAFETY DATA

Information related to hygiene and to safety can be found in the Safety Data Sheet available on request.

These specifications are given for information. Since the manufacturer is not able to check the application of the products, he cannot accept any responsibility for it. This technical data sheet replaces all previous editions.

Contact your RD Coatings representative for any further information.

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