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**DESCRIPTION** RD-MONOGUARD

RD-MONOGUARD is a high-performance, waterborne, fast drying, anti-corrosive product that combines characteristics of the primer and top coat.

RD-MONOGUARD is based on a new generation of acrylic resins and special anti-corrosion solutions.

The product protects the steel against corrosion and weathering.

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- USES** **Anti-corrosion for exposure in a wide variety of environments (C3-C5m / C5i):**
- **steel constructions:** bridges, flyovers, pipelines, towers, supports, etc. in refineries, petrochemical plants and in coastal areas,
  - **exteriors of:** silos, tanks (water, oil, gas, grain), etc.,
  - **equipment:** cranes, tank trucks, trailers, containers, etc.,
  - **small metal elements:** handrails, fences, railings, warehouse racks, doors, etc.,
  - **metal on buildings:** metal cladding, walls, lintels, sheet metal work, etc.

- FEATURES**
- High-quality anti-corrosive additives – making a highly corrosion resistant coating, suitable for severe outdoor, industrial and marine conditions (C5i / C5m);
  - provides similar anti-corrosion protection to other conventional solutions with less dry film thickness;
  - self-priming - can be used as both primer and finish coat, excellent physical and chemical bonding properties to most surfaces;
  - resistant to the effects of long-term weathering, UV light, salt water and most environmental atmospheric chemicals;
  - low VOC 45 g/liter, single package, waterborne;
  - contains no chromates, lead, or strong solvents;
  - impact and abrasion resistant;
  - non-flammable during and after application;
  - aesthetic finish with roller, brush, airless spray or air spray with an external tank;
  - “dry-fall”: when using an airless spray under good drying conditions, overspray of the paint changes into dry dust before it touches the substrate making it easy to clean after work;

**SUBSTRATES** Popular metal surfaces: steel, weathering steel (CorTen), galvanized steel (exposed for one year to external conditions), iron, stainless steel and sanded aluminum.

- SYSTEM** **Steel – general recommendations:**
- For long-term protection, it is recommended to apply two coats of RD-MONOGUARD
  - For additional properties (anti-graffiti, better chemical resistance, etc.) RD-MONOGUARD can be top coated with any finishing product from the RD-Coatings.
  - For moderate protection, it is possible to apply one coat of RD-MONOGUARD + one coat of RD-Coatings top coat (for example Aquatop PU).
  - Applying a single coat of RD-MONOGUARD is possible on previously painted surfaces in need of an aesthetic refreshment.
  - On galvanized steel exposed for one year to external conditions, it is possible to apply one coat of RD-MONOGUARD directly.

#### Recommended system for corrosive conditions, in accordance with ISO 12944:

- **long-term (H, over 15 years) for the following environments :**
  - **C5I-C5M** – 200 µm dry film – i.e. 2 coats, eff. 4,5 m<sup>2</sup>/l each, or 3 coats, eff. 6,5m<sup>2</sup>/l each,
  - **C4** – 150 µm dry film – i.e. 2 coats, eff. 5,5 m<sup>2</sup>/l each,
  - **C3** – 125 µm dry film - i.e. 2 coats, eff. 7 m<sup>2</sup>/l each,
- **medium term (M, 5-15 years) for the following environment:**
  - **C3** – 100 µm dry film – i.e. 2 coats, eff. 8 m<sup>2</sup>/l each,

#### APPLICATION INSTRUCTIONS

##### PREPARATION OF THE SUBSTRATE

The substrate has to be free of all loosely adhered rust (standard St2 or Sa2), degreased, dry, and free of dust.

**Partially rusted substrates with a well adhered old coating, stainless steel, galvanized steel exposed for one year to external conditions:** Clean mechanically or with a pressure washer (300 bar) to remove loose rust and paint. Clean the surface with detergent water to remove oil and dust. Thoroughly rinse with water. Allow the surface to dry thoroughly. After drying immediately apply the RD-MONOGUARD coating.

**New bare or coated iron, steel etc.:** Clean with detergent water to remove oil and dust. Thoroughly rinse with water. Allow the surface to dry thoroughly. After drying, immediately apply the RD-MONOGUARD.

**Freshly galvanized substrate:** apply RD-MULTIPRIM – the adhesion improving primer.

**Note:** These systems are general recommendations. For additional guidance, please contact a technical advisor.

##### APPLICATION CONDITIONS

- The minimum air and substrate temperatures: 8°C
- The maximum surface temperature: 55°C
- The maximum relative humidity: 80%

Surface temperature must be at least 3°C above the Dew Point. Do not apply in rain or with a threat of rain for 3 hours after applying. Polymerization continues after drying. Full polymerization of RD-MONOGUARD requires 2-7 day cure time. Freezing temperatures should be avoided during this period.

##### APPLICATION MEANS

Brush, roller, air spray with an external tank or airless spray (tip size: 013 – 017)

##### DILUTION

Do not dilute. Dilution worsens the anti-corrosive properties of the product.

##### CLEANING OF TOOLS

Water

##### CONSUMPTION

Approx. 5 m<sup>2</sup>/liter at 85 µm dry film.

##### PARTICULARITIES

Mix well before use. Application conditions as dictated by normal good painting practice.

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#### TECHNICAL DATA

##### FINISH

Semi-Gloss +/-60% (Gardner 60°)

<b>COLORS</b>	According to color card + colors on demand from 80 liter.
<b>DENSITY</b>	Approx. 1,15 +/- 0,05 g/cm <sup>3</sup>
<b>SOLIDS CONTENT</b>	By weight: approx. 51% +/-2% By volume: approx. 43% +/-2%
<b>VOC CONTENT</b>	Max. 45 g/l
<b>FLASH POINT</b>	Non-Flammable
<b>VISCOSITY</b>	30-50 P (Brookfield 20 RPM)
<b>DRYING TIME</b>	<ul style="list-style-type: none"> <li>• To touch: 1 -2 hour, depending on temperature and humidity.</li> <li>• To recoat: 1 – 4 hour, depending on temperature and humidity.</li> </ul> <p>Examples: approximate drying times for recoating depending on temperature and humidity; application at 5.5 m<sup>2</sup>/liter (approx. 180 µm wet / 75 µm dry film):</p> <ul style="list-style-type: none"> <li>• 6 hours at 8°C; (80%RH),</li> <li>• 3 hours at 15°C; (80%RH),</li> <li>• 1 hour at 25°C; (80%RH),</li> <li>• 1/4 hour at 35°C; (80%RH).</li> </ul> <p><b>Note:</b> even a slight wind (10 km/h) significantly speeds up drying time.</p>
<b>TEMPERATURE RESISTANCE</b>	80°C
<b>PACKAGING</b>	1l, 5l, 20l
<b>STORAGE STABILITY</b>	1 year minimum in sealed containers, in dry, well-ventilated areas, without sunlight, at +5°C to +35°C. Keep away from heat. Prevent from freezing.
<b>SAFETY CONDITIONS</b>	Read the information on container and the leaflet.
<b>SAFETY DATA SHEET</b>	The Material Safety Data Sheet is available on request.
<b>VERSION</b>	15J09

These specifications are given for information. Since the manufacturer – RD-COATINGS is not able to check the right application of the products, he cannot accept any responsibility for it. The company reserves the right to modify the data without notice. This technical data sheet replaces all previous editions.

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**If you have further questions, please contact us:**

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