

# RD-MONOGUARD SG

## Semi-Gloss



### DESCRIPTION OF THE PRODUCT

**USE:** Fast drying Primer/Finish high performance anti-corrosion coating with universal adherence.

**FEATURES:** Single component water-based coating based on a special blend of innovative resins for the protection of metal surfaces, objects and engineered structures against corrosion and weathering. **RD-Monoguard** is a DTM (Direct-To-Metal) type of coating that can be applied directly to various type of ferrous and non-ferrous metals. Its special formulation and ingredients offer incredible durability when it comes to protecting steel against corrosion, even without priorly blasting the surface.

**RD-Monoguard** 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 and increases on-site labour productivity.

Virtually odour free, it does not affect neighbouring occupants and can therefore be used in occupied buildings.

**RD-Monoguard** is UV resistant and its film forms a neat and tidy enamel type of finish.

Tested to be used in the most severe environments, **RD-Monoguard** protects valuable assets worldwide 24/7 including bridges, tanks, etc.

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

**SUBSTRATES:** Steel, new and old galvanised steel, stainless steel, aluminium, copper, ...

### SYSTEMS

Steel located in aggressive marine & industrial environments – C5		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m <sup>2</sup> / ft <sup>2</sup> per gallon	Comments
Primer	RD-Monoguard	200 / 8	87 / 3,5	0,20 L / 200	High lifespan > 15 years
Intermediate	RD-Monoguard	200 / 8	87 / 3,5	0,20 L / 200	
Finish	RD-Monoguard	200 / 8	87 / 3,5	0,20 L / 200	
<b>TOTAL</b>			<b>260 / 10,5</b>	<b>0,60 L / 66</b>	
<b>Other option:</b>					
Primer	RD-Monoguard	230 / 9	100 / 4	0,23 L / 175	High lifespan > 15 years
Finish	RD-Hydrograff HP Gloss	105 / 4,2	50 / 2	0,10 L / 390	
<b>TOTAL</b>			<b>150 / 6,5</b>		
<b>Other option in case of old and rusty surface:</b>					
Primer	RD-Elastometal	315 / 13	175 / 7	0,40 Kg / 130	High lifespan > 15 years
Finish	RD-Monoguard	230 / 9	100 / 4	0,23 L / 175	
<b>TOTAL</b>			<b>275 / 11</b>		

Steel located in aggressive marine & industrial environments – C4		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m <sup>2</sup> / ft <sup>2</sup> per gallon	Comments
Primer	RD-Monoguard	230 / 9	100 / 4	0,23 L / 175	High lifespan > 15 years
Finish	RD-Monoguard	230 / 9	100 / 4	0,23 L / 175	
<b>TOTAL</b>			<b>200 / 8</b>	<b>0,46 L / 88</b>	
<b>Other option:</b>					
Primer	RD-Monoguard	230 / 9	100 / 4	0,23 L / 175	High lifespan > 15 years
Finish	RD-Hydrograff HP Gloss	83 / 3,3	40 / 1,6	0,08 L / 488	
<b>TOTAL</b>			<b>140 / 6,5</b>		

Steel located in moderate environments - C3		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m <sup>2</sup> / ft <sup>2</sup> per gallon	Comments
Primer	RD-Monoguard	175 / 7	75 / 3	0,17 L / 233	High lifespan > 15 years
Finish	RD-Monoguard	175 / 7	75 / 3	0,17 L / 233	
<b>TOTAL</b>			<b>150 / 6,4</b>	<b>0,34 L / 116</b>	

#### Risks of chemical spills or graffiti:

The system can be top coated by one or two coats of **RD-Hydrograft HP Clear High Gloss** if not already used in the system.

*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 %  
Dew point > 3°C (5°F)

**APPLICATION MEANS:** Brush, roller or airless (nozzle size: 010–012)  
Application by airless is recommended and makes it easier to reach the recommended thicknesses. Use a device that allows a minimum pressure of 70-150 bar / 1000 - 2000 psi at the outlet.

**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 type of surface preparation are possible:  
1/ Remove rust manually or by power tool to ST2 – ISO 8501-1/SSPC SP2 or SP3.  
2/ Blasting to SA 2½ - ISO 8501-1/NACE3/SSPC SP6.  
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: +/- 1 hour depending on thickness  
Recoatable: +/- 2 hours depending on film thickness  
Possible to apply wet on wet in special conditions.

**CLEANING OF TOOLS:** Water.

**SPECIFICITIES:** Mix well before use.

### TECHNICAL DATA

**FINISH:** Semi-Gloss +/- 70 % +/- 5 (Gardner 60°)

**COLOURS:** Stock colours: White. Also available in clear, check RD-Monoguard Clear. RAL, NCS and bespoke colours. Available on RD Coatings dispensing system.

**DENSITY:** Ca. 1,15 +/- 0,05 g/cm<sup>3</sup>

**SOLIDS CONTENT:**  
In weight: 51 % +/-2 (for white)  
In volume: 43 % +/-2 (for white)

**VISCOSITY:** 30 - 50 P (Brookfield 20RPM)

VOC CONTENT: < 45 g/L  
FLASH POINT: Not flammable.  
STORAGE STABILITY: 12 months: keep away from heat and frost  
PACKAGING: 1 L - 5 L - 10 L - 20 L

#### NORMS AND TESTS

SALT SPRAY	ISO 12944 / ISO 9227 / ISO 4628
WATER CONDENSATION	ISO 12944 / ISO 6270 / ISO 4628
ADHESION	ISO 2409

#### 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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