



# New Guard Coatings Group

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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

[www.newguardcoatings.com](http://www.newguardcoatings.com)

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## Technical sheet : RD-Monoguard SG

### 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 very aggressive marine & industrial environments – C5 Very High / VH		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m <sup>2</sup> / pi <sup>2</sup> par gallon	Comments
1st layer	RD-Monoguard	210 / 8.2	90 / 3.6	0,21 l / 195	Very high lifespan > 25 years
2nd layer	RD-Monoguard	210 / 8.2	90 / 3.6	0,21 l / 195	
3rd layer	RD-Monoguard	210 / 8.2	90 / 3.6	0,21 l / 195	
TOTAL		630 / 24.6	270 / 10.8	0,63 l / 65	

Steel located in aggressive marine & industrial environments – C5 High		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	233 / 9,3	100 / 4	0,23 l / 175	High lifespan > 15 years
Finish	RD-Monoguard	233 / 9,3	100 / 4	0,23 l / 175	
TOTAL			200 / 8	0,46 l / 87	
Other option:					
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	
TOTAL			150 / 6		
Other option in case of old and rusty surface:					
Primer	RD-Elastometal	386 / 15,4	220 / 8,8	0,48 kg / 106	High lifespan > 15 years
Finish	RD-Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	
TOTAL			300 / 12		

Steel located in aggressive marine & industrial environments – C4		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m² / ft² per gallon	Comments
Primer	RD-Monoguard	174 / 7	75 / 3	0,17 l / 234	High lifespan > 15 years
Finish	RD-Monoguard	174 / 7	75 / 3	0,17 l / 234	
TOTAL			150 / 6	0,34 l / 117	
Other option:					
Primer	RD-Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	High lifespan > 15 years
Finish	RD-Hydrograff HP Gloss	83 / 3,3	40 / 1,6	0,08 l / 488	
TOTAL			120 / 4,8		
Other option in case of old and rusty surface:					
Primer	RD-Elastometal	315 / 13	175 / 7	0,4 kg / 130	High lifespan > 15 years
Finish	RD-Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	
TOTAL			255 / 10,2		

Steel located in moderate environments – C3		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m² / ft² per gallon	Comments
Primer	RD-Monoguard	128 / 5,1	55 / 2,2	0,13 l / 319	High lifespan > 15 years
Finish	RD-Monoguard	128 / 5,1	55 / 2,2	0,13 l / 319	
TOTAL			110 / 4,4	0,26 l / 160	
Other option in case of old and rusty surface:					
Primer	RD-Elastometal	214 / 8,5	120 / 4,8	0,27 kg / 190	High lifespan > 15 years
Finish	RD-Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	
TOTAL			200 / 8		

## Risks of chemical spills or graffitis:

The system can be top coated by one or two coats of RD-Hydrograff 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%

Surface temperature must be minimum 3°C (5°F) above dew point.

### 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.

Aluminum: clean with sulfuric acid diluted to 10%.

On new galvanized steel: preferably clean with RD-Eco PowerClean detergent diluted with water or use a conventional detergent.

Stainless steel: preferably clean with RD-Eco PowerClean detergent diluted with water or use a conventional detergent.

Copper: clean with hydrochloric acid diluted to 10% and rinse with water.

Repainting alkyd resin-based paints: Perform an adhesion test beforehand if the paint is recent or less than a year old. Optionally,

lightly sand the surface before painting.

**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

Recoatible: +/- 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 (Gardner 60°):**

Semi-Gloss +/- 70 % +/- 5

**COLOURS:**

White. Also available in clear, check RD-Monoguard Clear.

RAL, NCS and bespoke colours. Available on RD Coatings dispensing system.

**DENSITY:**

1.15 +/- 0.05 g/cm<sup>3</sup>

**SOLIDS CONTENT:**

In weight: 51 % +/-2

In volume: 43 % +/-2

**VISCOSITY:**

30 - 50 P (Brookfield 20RPM)

**VOC CONTENT:**

< 45 g/l


**FLASH POINT:**

Not flammable

**STORAGE:**

Minimum 24 months protected from frost and excessive temperatures in its original closed packaging.

## Norms and tests

SALT SPRAY	ISO 9227 / ISO 4628
WATER CONDENSATION	ISO 6270 / ISO 4628
ADHESION	ISO 2409
HARDNESS PERSOZ	ISO 1522
HARDNESS PENCIL	ISO 15184
	ISO 16000-6 / VOC Classification in France

## 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.

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