



New Guard Coatings Group

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NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

Technical sheet : RD-Monoguard Clear Glossy

Description of the product

USE:

Fast drying Primer/Finish high performance anti-corrosion varnish with universal adherence.

FEATURES:

Single component water-based varnish based on a special blend of innovative resins for the protection of metal surfaces, objects and engineered structures against corrosion and weathering. RD-Monoguard Clear 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 Clear 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 Clear 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 Clear is particularly interesting to use on surfaces where you would like to keep vintage, rusty, weathered or any other original appearance of the object.

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

SUBSTRATES:

Steel, new and old galvanised steel, stainless steel, aluminium, copper, ...

Systems

Renovation of steel located indoor and in moderate environments		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Monoguard Clear	145 / 5,7	50 / 2	0,14 l / 285	High lifespan > 15 years
Finish	RD-Monoguard Clear	145 / 5,7	50 / 2	0,14 l / 285	
TOTAL			100 / 4	0,28 l / 143	
Other option for higher abrasion resistance					
Primer	RD-Monoguard Clear	145 / 5,7	50 / 2	0,14 l / 285	High lifespan > 15 years
Finish	RD-Hydrograff HP Clear	125 / 5	50 / 2	0,13 l / 325	
TOTAL			150 / 6		

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 is 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.

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

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 (Gardner 60°):

Glossy: +/- 70 % +/- 5

COLOURS:

Clear

DENSITY:

1.05 +/- 0.05 g/cm³

SOLIDS CONTENT:

In weight: 38% +/-2

In volume: 35% +/-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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