



New Guard Coatings Group

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Technical sheet : RD-Speedcoat Aqua

Description of the product

USE

Fast drying Primer/Finish anti-corrosion coating with universal adherence.

FEATURES

Single component fast drying water-based coating for the protection of metal surfaces. RD-Speedcoat Aqua is a DTM (Direct-To-Metal) type of coating that can be applied directly to various kinds of ferrous and non-ferrous metals.

RD-Speedcoat Aqua is UV resistant, and its film forms a neat and tidy industrial enamel type of finish. It's the ideal type of coating to be used in low to moderate corrosive environments – C1 to C3 according to ISO 12944. As a surface tolerant coating, it can be applied on top of most existing coatings or surfaces!

RD-Speedcoat Aqua is available in bases for RD Coatings colour dispenser and can therefore be made in almost any RAL, NCS or bespoke colours.

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

RD-Speedcoat Aqua is part of the SCS – Single Coating System - product group, meaning that one same product is used as primer and finish without losing its performances.

SUBSTRATES

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

Systems

Moderate industrial environments - C3 High : Indoor: Manufacturing areas with high humidity and polluted atmosphere such as food industries, breweries, creameries, laundries... Outdoor: Urban and industrial environments, moderate sulfur dioxide pollution: coastal areas with low salinity.		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First Coat	RD-Speedcoat Aqua	150 / 6	65 / 2,6	0,15 L / 265	Coverage depends on the color. An additional coat is sometimes necessary.
Top Coat	RD-Speedcoat Aqua	150 / 6	65 / 2,6	0,15 L / 265	
TOTAL			130 / 5,2		

Low corrosion threat - C2 Indoor: Unheated buildings where condensation can occur, e.g. warehouses or sports halls ... Outdoor: Low pollution atmospheres: especially rural areas.		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First Coat / Top Coat	RD-Speedcoat Aqua	200 / 8	85 / 3,4	0,20 L / 200	Coverage depends on the color. An additional coat is sometimes necessary.
TOTAL			85 / 3,4		

Very low corrosion threat - C1 : Indoor: heated offices, stores, hotels...		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First Coat / Top Coat	RD-Speedcoat Aqua	200 / 8	85 / 3,4	0,20 L / 200	
TOTAL			85 / 3,4	0,20 L / 200	

Repainting of already painted elements without traces of corrosion or in good condition		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First Coat / Top Coat	RD-Speedcoat Aqua	200 / 8	85 / 3,4	0,20 L / 200	Coverage depends on the color. An additional coat is sometimes necessary.
TOTAL			85 / 3,4	0,20 L / 200	

Indicated consumption is theoretical and does not consider potential losses during application.

Application instructions

APPLICATION CONDITIONS

Ambient temperature: minimum 10°C (50°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 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/ High pressure washing following SSPC SP12 WJ4.

Aluminum: clean with sulfuric acid diluted to 10% or lightly scratch the surface.

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.

DRYING TIME (23°C / 73°F, 50% RH)

Touch dry: 30 minutes
 Dust free: 45 minutes
 Recoatable: 1 hour

CLEANING OF TOOLS

Water.

SPECIFICITIES

Mix well before use.

Technical data**FINISH**

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

COLOURS

RAL, NCS and customs colors available on RD Coatings dispensing system.

DENSITY

Ca. 1,19 +/- 0,05 g/cm³

SOLIDS CONTENT

In weight: 51 % +/-2
 In volume: 43 % +/-2

VISCOSITY

50 P (Brookfield 20RPM)

VOC CONTENT

< 50 g/L


FLASH POINT

Not flammable.

STORAGE STABILITY

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

Norms and tests

Salt spray	ISO 12944 / ISO 9227 / ISO 4628
Water condensation	ISO 12944 / ISO 9227 / ISO 4628
Adhesion	ISO 2409
	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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