

Technical sheet : RD-Metal-Unicoat

Description of the product

USE:

Primer/Finish rust preventive coating for metal sheets and claddings.

FEATURES:

Single component coating for the protection of metallic objects. RD-Metal Unicoat is an excellent choice for the renovation of metallic objects located in low to moderate corrosive environments and can be applied directly on steel and weathered galvanized steel without having to blast the surface.

RD-Metal Unicoat 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.

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

RD-Metal Unicoat is UV resistant, has a good resistance against weathering and can therefore be applied as primer and/or as finish. When applied by airless, RD-Metal Unicoat easily covers large flat surfaces with no overlaps and will protect the coated objects neat and tidy for numerous years. It is therefore is an excellent, fast and easy renovation system for claddings and coated metal sheets.

RD-Metal Unicoat is part of the SCS – Single Coating System - product group.

SUBSTRATES:

Iron, steel, weathered galvanized steel (> 1 year)

Systems

Neutral interior atmosphere of a dry and heated building- C1		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer/Finish	RD-Metal Unicoat	200 / 8	95 / 3,8	0,20 l / 200	> 15 years life expectancy

Atmosphere with low degree of pollution: Rural areas, unheated buildings where condensation may occur - C2		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Metal Unicoat	191 / 7,7	90 / 3,6	0,19 l / 212	> 15 years life expectancy
Finish	RD-Metal Unicoat	191 / 7,7	90 / 3,6	0,19 l / 212	
Total			180 / 7,2	0,38 / 106	

Urban and industrial atmospheres with moderate pollution, Coastal areas with low salt content, Indoor production areas with high humidity and some pollution - C3		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Metal Unicoat	234 / 9,4	110 / 4,4	0,23 l / 174	> 10 years life expectancy
Finish	RD-Metal Unicoat	234 / 9,4	110 / 4,4	0,23 l / 174	
Total			180 / 7,2	0,46 / 87	

Renovation of coated side walls made of metal sheets / claddings		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Metal Unicoat (*)	200 / 8	95 / 3,8	0,20 l / 200	> 15 years life expectancy
Finish	RD-Metal Unicoat	200 / 8	95 / 3,8	0,20 l / 200	
Total			190 / 7,2	0,40 / 100	

(*) In case of corroded surfaces or when the objects are located in a more corrosive atmosphere (C4 or C5), it is advised to use RD-Elastometal as a prime coat.

Aesthetical fresh-up:

A single coat is possible on previously painted surfaces in need of an aesthetic refreshment.

Risks of chemical spills, graffiti or nearby aggressive exhaust fumes/pollution:

The system can be top coated by one or two coats of RD-Hydrograff HP Clear High Gloss.

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: 013–015)

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 types 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: +/- 2 hours

Recoatible: +/- 4 hours

CLEANING OF TOOLS:

Water

SPECIFICITIES:

Mix well before use.

Technical data

FINISH (Gardner 60°):

Satin: 15 +/- 5

COLOURS:

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

DENSITY:

1.3 +/- 0.05 g/cm³

SOLIDS CONTENT:

In weight: 59 % +/-2
In volume: 47 % +/-2

VISCOSITY:

100 - 120 P (Brookfield 20RPM)

VOC CONTENT:

< 60 g/l

FLASH POINT:

Not flammable

STORAGE:

24 months, keep away from frost and store away from heat.

Norms and tests

SALT SPRAY	ISO 12944 / ASTM B117 / ISO 4628
ADHESION X-CROSS CUT	ISO 2409
ADHESION PULL-OFF TEST	ISO 4624
ABRASION RESISTANCE TABER	ASTM D4060
PENCIL HARDNESS	ASTM D3363
QUV TEST	ASTM D4587 / ASTM G53 / ISO 11507

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.