



New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

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.

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

Technical sheet : RD-Monovar PU Glossy

Description of the product

USE:

High performance interior and exterior varnish with superior properties.

FEATURES:

RD-Monovar PU is a single-component varnish based on acrylic and polyurethane resins that offers a hard flexible and wear resistant film that can be used for decorative and protective purposes including floors.

RD-Monovar PU 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-Monovar PU creates a nice and smooth finish. Thanks to its high-quality pigments and resins, it has a very good resistance against humidity, water and has a very good outdoor durability. It can cover most kind of existing coatings to strengthen the film surface and further protect against dirt, pollution, weathering and UVs. It can be used on walls in humid rooms of technical rooms like kitchens or bathrooms to obtain a tighter finish, easier to clean, and more resistant to humidity or stains.

RD-Monovar PU has successfully been tested to be used for constructions regulated by the LIVING BUILDING CHALLENGE – LEED.

SUBSTRATES:

Various plastics, concrete, cement, wood, metal (with primer), coated surfaces, ...

Systems

Wood, concrete, plaster, cement, hard plastics:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon
Primer	RD-Monovar PU Glossy	110 / 4,5	30 / 1,2	0,11 L / 367
Finish	RD-Monovar PU Glossy	110 / 4,5	30 / 1,2	0,11 L / 367
TOTAL			60 / 2,4	0,22 L / 184

Ferrous metals – light to moderate corrosive conditions:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon
Primer	RD-Monoguard Clear	230 / 9	80 / 3,2	0,23 L / 178
Finish	RD-Monovar PU Satin	150 / 6	40 / 1,6	0,15 L / 275
TOTAL			120 / 4,8	

Non-ferrous metals – (stainless steel, aluminium, ...):		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon
Primer	RD-Multiprim	100 / 4	40 / 1,6	0,10 L / 400
Finish	RD-Monovar PU Satin	150 / 6	40 / 1,6	0,15 L / 275
TOTAL			80 / 3,2	

On top of existing coatings:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon
Finish	RD-Monovar PU Satin	150 / 6	40 / 1,6	0,15 L / 275

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 spray gun.

Compressed air: nozzle opening 1,4 mm – 4 to 6 bars of pressure (60 to 90 psi)

Airless: nozzle opening 007 to 009 – Pressure +/- 70 bars (+/- 1000 psi)

PREPARATION OF THE SUBSTRATE:

Preparation will depend on the kind of substrate. In general, the surface must always be cleaned and degreased prior to applying RD-Monovar PU.

DILUTION:

Product is ready-for-use.

DRYING TIME (20°C - 68°F):

Touch dry: +/- 1h30 hours

Dry: +/- 2 hours

Recoatable: +/- 4 hours

CLEANING OF TOOLS:

Water

SPECIFICITIES:

Mix well before use.

Technical data

FINISH (Gardner 60°):

Glossy: 80 +/- 10

COLOURS:

Clear/transparent.

DENSITY:

1.05 +/- 0.05 g/cm³

SOLIDS CONTENT:

In weight: 28 % +/-2

In volume: 25 % +/-2

VISCOSITY:

20 - 30 P (Brookfield 20RPM)

VOC CONTENT:

< 50 g/L

FLASH POINT:

Not flammable

STORAGE:

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

Norms and tests

RED LIST COMPLIANCE	Living Building Challenge v3
VOC EMISSION TEST RESULTS	California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017
TVOC CONCENTRATION RANGE	USGBC's LEED v4 rating systems
USGBC LEED Version 4, BD&C, ID&C	
The WELL Building Standard	
ANSI/GBI 01, Green Building Assessment Protocol	
PERSOZ HARDNESS	ISO 1522
TABER ABRASION	ISO 7784-1
ADHERENCE CROSS CUT	ISO 2409
PENCIL HARDNESS	ISO 15184
	ISO 16000-6 / COV 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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