



# 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-Monofloor PU

## Description of the product

**USE:**

Fast drying floor paint for workshops, technical rooms and balconies.

**FEATURES:**

Single component floor coating based on acrylic and polyurethane resins for the protection of floors against wear and abrasion.

RD-Monofloor 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-Monofloor PU is UV resistant and can therefore be applied outdoor like on balconies.

It has a very good resistance against wear and abrasion, however, in the event of a more intensive use of the floor by forklifts and trucks, we recommend the use of RD-Hydropox or RD-Hydrograff HP floor coating system.

RD-Monofloor PU is part of the SCS – Single Coating System - product group.

**SUBSTRATES:**

Concrete – previously painted floors

## Systems

On porous floors:		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-Monofloor PU	200 / 8	85 / 3,4	0,20 L / 200	Dilute the first coat by 10% with water
Finish	RD-Monofloor PU	200 / 8	85 / 3,4	0,20 L / 200	
TOTAL			170 / 6,8	0,40 L / 100	

On non-porous floors:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m <sup>2</sup> / ft <sup>2</sup> per gallon
Primer	RD-Monofloor PU	200 / 8	85 / 3,4	0,20 L / 200
Finish	RD-Monofloor PU	200 / 8	85 / 3,4	0,20 L / 200
TOTAL			170 / 6,8	0,40 L / 100

On balconies on top of RD-Elastodeck waterproofing systems:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m <sup>2</sup> / ft <sup>2</sup> per gallon
Finish	RD-Monofloor PU	200 / 8	85 / 3,4	0,20 L / 200

**On metal staircases or platforms (including galvanized, stainless steel and aluminium):**

Apply a first coat of RD-Monoguard SG followed by two layers of RD-Monofloor PU.

**On ceramic floors, tiles:**

Apply a first coat of RD-Multiprim followed by two layers of RD-Monofloor PU.

## Risks of chemical spills:

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

## Aesthetical fresh-up:

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

## Anti-skid system:

- 1/ Broadcast sand or quartz (silicic sand 99% purity 0,3-1mm) on the freshly painted first coat of RD-Monofloor PU. Broadcast until rejection or lightly depending on the required roughness.
- 2/ Wait at least two hours until the coating is dry.
- 3/ Brush off the non-adhering sand.
- 4/ Apply the second coat of RD-Monofloor PU.

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

## 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 %

Dew point > 3°C (5°F)

The concrete screed may not contain more than 5% of humidity.

### APPLICATION MEANS:

Brush, roller or airless (nozzle size: 015–021)

### PREPARATION OF THE SUBSTRATE:

#### Concrete floors:

The substrate must be clean: dry, degreased and dust free. Non adhering elements such as older coatings must be removed.

Cracks and damages can be repaired using RD-Acryl W and RD-Cement Filler/Mix.

In case of new polished concrete floors, the curing compound should be removed first by means of a curing remover (30% solution of hydrogen chloride) or mechanically.

In general, and certainly in case of a smooth surface, using a diamond sanding machine to prepare the surface will allow to increase the mechanical adhesion of the coating and its lifespan.

### 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

Recoatable: +/- 4 hours

### CLEANING OF TOOLS:

Water

### SPECIFICITIES:

Mix well before use.

## Technical data

### FINISH (Gardner 60°):

Satin +/- 30 % +/- 5

### COLOURS:

Stock colours: White, Traffic Grey A RAL 7042, Signal Grey RAL 7004  
RAL, NCS and bespoke colours.  
Available on RD Coatings dispensing system.

### DENSITY:

1.2 +/- 0.05 g/cm<sup>3</sup>

### SOLIDS CONTENT:

In weight: 47 % +/-2  
In volume: 37 % +/-2

### VISCOSITY:

50 - 70 P (Brookfield 20RPM)

### VOC CONTENT:

< 40 g/L


### FLASH POINT:

Not flammable

### STORAGE:

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

## Norms and tests

Adherence	ISO 2409
Abrasion resistance (Taber method)	ASTM D968
Pencil hardness	ASTM D3363
Pendulum hardness	ISO 1522
	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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