



New Guard Coatings Group

A global reputation to protect.

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

Technical sheet : RD-Hydrograff HP Glossy

Description of the product

USE:

Highly resistant coating specially formulated for the long-term protection of surfaces against wear, abrasion, chemical spills, and weathering.

FEATURES:

RD-Hydrograff HP is a two-component aliphatic polyurethane topcoat for indoor and outdoor use. After drying, the coating creates a hard flexible and wear resistant film that can be used for decorative and protective purposes. It is appropriate for application on various kind of surfaces including concrete and wooden floors, walls, equipment, etc. It provides very good resistance against humidity and very good outdoor durability.

RD-Hydrograff HP is water-based, easy to handle and has no fire risks.

RD-Hydrograff HP is formulated with high quality raw materials and pigments. It provides high UV resistance, a very good chemical resistance including gasoline, a very good resistance against abrasion and solvents, a very high hardness (Taber abrasion: weight loss after 1000 cycles /CS 10 = 0.060 g); while keeping flexibility in its film that will avoid future cracks.

It is a good solution to coat indoor or outdoor parking spaces with different colours.

RD-Hydrograff HP can provide very high levels of anti-corrosion protection surpassing traditional three coat systems when combined with RD-Monoguard!

SUBSTRATES:

Concrete, wood, various plastics, painted surfaces, steel et non-ferrous metals (with proper primer), ...

Systems

Floors: concrete, cement, weathered asphalt		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Hydrograff HP	167 / 6,7	80 / 3,2	0,17 l / 244	1 st layer diluted with 10% water if the surface is porous.
Finish	RD-Hydrograff HP	167 / 6,7	80 / 3,2	0,17 l / 244	
TOTAL			160 / 6,4	0,34 l / 244	

Equipment made of ferrous metals (anti-corrosion system)		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon
Primer	RD-Monoguard	200 / 8	85 / 3,4	0,20 l / 200
Finish	RD-Hydrograff HP	83 / 3,3	40 / 1,6	0,08 l / 488
TOTAL			125 / 5	

Equipment made of non-ferrous metals (stainless steel, aluminium, ...), plastics		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-Hydrograff HP	83 / 3,3	40 / 1,6	0,08 l / 488
TOTAL			80 / 3,2	

Tannic and exotic woods		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	Deco Isomat Aqua	125 / 5	60 / 2.4	0,13 l / 325	In some cases, depending on the needs, one coat may be enough.
2nd layer	RD-Hydrograff HP	83 / 3,3	40 / 1,6	0,08 l / 488	
Finish	RD-Hydrograff HP	83 / 3,3	40 / 1,6	0,08 l / 488	
TOTAL			140 / 5.6		

Objects and walls: wood, concrete, cement, hard plastics...		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Hydrograff HP	83 / 3,3	40 / 1,6	0,08 l / 488	In some cases, depending on the needs, one coat may be enough.
Finish	RD-Hydrograff HP	83 / 3,3	40 / 1,6	0,08 l / 488	
TOTAL			80 / 3,2	0,16 l / 244	

Anti-skid system on floors:

1/ Broadcast sand or quartz (silicic sand 99% purity 0,3-1mm) on the freshly painted first coat of RD-Hydrograff HP. 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-Hydrograff HP.

Already painted surfaces, aesthetical fresh-up:

Depending on the colour, apply one or two coats of RD-Hydrograff HP.

Indicated consumption is based on RD-Hydrograff HP Glossy version and is theoretical and does not consider potential losses during application. It can also be influenced by the porosity of the substrate. This consumption may not be exceeded. An excessive consumption can cause formation of gas bubbles in the paint film.

Application instructions

APPLICATION CONDITIONS:

Ventilate properly if painting inside.

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)

Screeds may not contain more than 4% humidity.

APPLICATION MEANS:

Brush and roller.

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

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

PREPARATION OF THE SUBSTRATE:

Woodwork and joinery :

On tannic or exotic woods, we recommend using RD-Deco Isomat Aqua as a first coat to prevent tannin migration through the paint film

Concrete floors:

Using a diamond sanding machine to prepare the surface will allow to increase the mechanical adhesion of the coating.

In case of new polished concrete floors, the curing compound should be removed first by means of a curing remover or by grid blasting.

Metallic floors (platforms):

For applications on metals, a first coat of RD-Monoguard is advised.

Wooden floors:

The use of a sanding machine to prepare the surface allow to increase the mechanical adhesion of the coating.

MIXING RATIO:

Just before the application, add slowly component B into component A by mixing mechanically. After mixing, let it rest during 5 to 10 minutes so that the air bubbles disappear. The mixture must be used within 2 hours.

Weight: 270 g of component B for 995 g of component A

Volume: 3,5:1

POT-LIFE:

2 hours at 20°C

DILUTION:

Dilute the first coat by maximum 10% with water when applied as primer on a porous substrate.

DRYING TIME (20°C - 68°F):

Touch dry: 6 hours

Recoatible: min. 8 hours and maximum 72h without sanding

Resistance to moderate use: 3 days

Resistance to intensive use: 7 days

CLEANING OF TOOLS:

Water

SPECIFICITIES:

Mix well before use.

Technical data

FINISH (Gardner 60°):

Glossy: 80% +/- 10

COLOURS:

White, RAL, NCS and bespoke colours.

Available on RD Coatings dispensing system

DENSITY:

1.25 +/- 0.05 g/cm³

SOLIDS CONTENT:

In weight: 58% +/-2

In volume: 48% +/-2

VISCOSITY:

15 - 25 P (Brookfield 20RPM)

VOC CONTENT:

< 20 g/l

FLASH POINT:

Not flammable

STORAGE:

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

Norms and tests

ABRASION RESISTANCE TABER	ASTM D4060
OVERALL MIGRATION	EN 1186
QUV	ASTM D4587 / ASTM G53 / ISO11507
CORROSION	ASTM B117 / ISO 9227
PENCIL HARDNESS	ISO 15184
PERSOZ HARDNESS	ISO 1522
CHEMICAL RESISTANCE	INTERNAL TESTS
ADHERENCE CROSS CUT	ISO 2409

Safety data

Product reserved for professional use.

The new REACH restriction requires workers handling diisocyanates to undergo training according to their uses. The regulations define 3 levels of training, basic training (level I), intermediate training (level II) and advanced training (level III). The training content has been developed by experts in the field of EHS.

This guide helps you choose the right training. Click here for trainings and guide. Or visit <https://www.safeusediisocyanates.eu/>

Attention: If you have only chosen the basic training, please note that the advanced training and refresher training mentioned in the REACH restriction in paragraph 74 of annex XVII are not included. In all training courses, the basic training is already included and therefore does not have to be chosen additionally. To register a group of participants, please use an administrative account.

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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