

# RD-HYDROGRAFF HP

## GLOSSY/SATIN/MAT



### 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 <sup>2</sup> / ft <sup>2</sup> per gallon	Comments
Primer	RD-Hydrograff HP	167 / 6,7	80 / 3,2	0,17 L / 244	1 <sup>st</sup> layer diluted with 10% water if the surface is porous.
Finish	RD-Hydrograff HP	167 / 6,7	80 / 3,2	0,17 L / 244	
<b>TOTAL</b>			<b>160 / 6,4</b>	<b>0,34 L / 244</b>	

Equipment made of ferrous metals (anti-corrosion system)		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-Monoguard	200 / 8	85 / 3,4	0,20 L / 200
Finish	RD-Hydrograff HP	83 / 3,3	40 / 1,6	0,08 L / 488
<b>TOTAL</b>			<b>125 / 5</b>	

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 <sup>2</sup> / ft <sup>2</sup> 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
<b>TOTAL</b>			<b>80 / 3,2</b>	

Objects and walls: wood, concrete, cement, hard plastics...		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-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	
<b>TOTAL</b>			<b>80 / 3,2</b>	<b>0,16 L / 244</b>	

**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 – 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:	The substrate must be clean, dry, degreased, and free of dust. <u>Concrete floors:</u> 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. <u>Metallic floors (platforms):</u> For applications on metals, a first coat of RD-Monoguard is advised. <u>Wooden floors:</u> 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: 270g of component B for 995 g of component A Volume: 3,5 : 1
POT-LIFE:	<b>2 hours at 20°C</b>
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: Glossy: 80 % +/- 10  
(Gardner 60°) Satin: 35 % +/- 5  
Mat: 7 % +/- 5

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

DENSITY: 1.25 +/- 0.05 g/cm<sup>3</sup>

SOLIDS CONTENT:

	Weight	Volume
Glossy	58 %	48 %
Satin	59 %	49 %
Mat	60 %	50 %

VISCOSITY: 15 - 25 P (Brookfield 20RPM)

VOC CONTENT: < 20 g/L

FLASH POINT: Not flammable.

STORAGE STABILITY: 12 months: keep away from heat and frost

PACKAGING: 1 L - 2,5 L - 5 L

#### 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

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.

[Contact your RD Coatings representative for any further information.](#)

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