

RD-HYDROGRAFF HP CLEAR

HIGH GLOSS/SATIN/MAT



DESCRIPTION OF THE PRODUCT

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

FEATURES: **RD-Hydrograff HP Clear** 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 concrete and wooden floors or objects, walls, steel and non-ferrous metals with a primer, etc. It provides very good resistance against humidity and very good outdoor durability.

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

RD-Hydrograff HP Clear is formulated with high quality raw materials and provides a very good chemical resistance, 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.

RD-Hydrograff HP Clear can provide very high levels of anti-corrosion protection surpassing traditional three coat systems when combined with **RD-Monoguard!** It is also used as transparent anti-corrosion system when combined with **RD-Monoguard Clear**.

RD-Hydrograff Clear High Gloss can be used as an anti-graffiti protection on top of various kind of surfaces.

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

SYSTEMS

Floors: concrete, cement, wooden		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 Clear	150 / 6	60 / 2,4	0,15 L / 270	1 st layer diluted with 10% water if the surface is porous.
Finish	RD-Hydrograff HP Clear	150 / 6	60 / 2,4	0,15 L / 270	
TOTAL			120 / 4,8	0,30 L / 135	

Metallic floors (platforms):

Apply a first coat of **RD-Monoguard Clear** followed by two layers of **RD-Hydrograff HP Clear**.

Objects, structures in ferrous metal:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Monoguard	200 / 8	85 / 3,4	0,20 L / 200	Coverage depends on colour contrast. An extra coat may be required
Finish	RD-Hydrograff HP Clear	100 / 4	40 / 1,6	0,10 L / 407	
TOTAL			125 / 5		

Objects in non-ferrous metal - (stainless steel, aluminium, ...), plastic:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Multiprim	100 / 4	40 / 1,6	0,10 L / 400	Coverage depends on colour contrast. An extra coat may be required
Finish	RD-Hydrograff HP Clear	100 / 4	40 / 1,6	0,10 L / 407	
TOTAL			80 / 3,2		

Walls, objects and equipment made of wood, concrete, hard plastic:		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 Clear	100 / 4	40 / 1,6	0,10 L / 407	
Finish	RD-Hydrograff HP Clear	100 / 4	40 / 1,6	0,10 L / 407	
TOTAL			80 / 3,2	0,20 L / 200	

Indicated consumption is based on RD-Hydrograff HP Clear High Gloss version and is theoretical, it 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: 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% of 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: Preparation will depend on the kind of substrate. In general, the surface must be cleaned and degreased prior to applying RD-Hydrograff HP Clear.

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: 170 g of component B for 850 g of component A
Volume: 5,5 : 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°)
High gloss: 85 % +/- 10
Satin: 35 % +/- 5
Mat: 7 % +/- 5

COLOURS: Transparent.

DENSITY:
High Gloss & Satin Gloss: 1.02 +/- 0.05 g/cm³
Mat: 1.05 +/- 0.05 g/cm³

SOLIDS CONTENT:

	Weight	Volume
High Gloss	40 %	40 %
Satin	43 %	41 %
Mat	43 %	41 %

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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