

Technical sheet : RD-Aquatop PU Satin

Description of the product

USE:

High performance interior and exterior enamel with superior properties.

FEATURES:

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

RD-Aquatop 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-Aquatop PU creates a nice and smooth finish. Thanks to its high-quality pigments, it offers very good resistance to humidity and has a very good outdoor durability.

RD-Aquatop 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

| Ferrous metals | | 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-Aquatop PU | 100 / 4 | 40 / 1,6 | 0,10 L / 400 | |
| TOTAL | | | 125 / 5 | | |

| 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 | 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-Aquatop PU | 100 / 4 | 40 / 1,6 | 0,10 L / 400 | |
| TOTAL | | | 80 / 3,2 | | |

| Wood, concrete, 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-Aquatop PU | 100 / 4 | 40 / 1,6 | 0,10 L / 400 | |
| Finish | RD-Aquatop PU | 100 / 4 | 40 / 1,6 | 0,10 L / 400 | |
| TOTAL | | | 80 / 3,2 | 0,20 L / 200 | |

| Tannic and exotic woods | | Wet film thickness in microns / mils | Dry film thickness in microns / mils | Consumption per m ² / ft ² per gallon |
|-------------------------|------------------|---|---|--|
| Primer | Deco Isomat Aqua | 125 / 5 | 60 / 2,4 | 0,13 L / 325 |
| 2nd layer | RD-Aquatop PU | 100 / 4 | 40 / 1,6 | 0,10 L / 400 |
| Finish | RD-Aquatop PU | 100 / 4 | 40 / 1,6 | 0,10 L / 400 |
| TOTAL | | | 140 / 5,6 | |

| Pre-painted elements like doors, plinths,.... | | Wet film thickness in microns / mils | Dry film thickness in microns / mils | Consumption per m ² / ft ² per gallon | Comments |
|---|--|---|---|--|----------|
|---|--|---|---|--|----------|

| | | | | | |
|---------------|---------------|---------|----------|--------------|--|
| Primer/Finish | RD-Aquatop PU | 100 / 4 | 40 / 1,6 | 0,10 L / 400 | Coverage depends on colour contrast. An extra coat may be required |
|---------------|---------------|---------|----------|--------------|--|

Aesthetical fresh-up:

A single coat is possible on previously painted surfaces in need of an aesthetic refreshment. 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 type of substrate. In general, the surface should be clean and degreased before applying RD-Aquatop PU.

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

DILUTION:

Product is ready-for-use.

DRYING TIME (20°C - 68°F):

Touch dry: +/- 1h30 hours

Dry: +/- 2 hours

Recoat: +/- 4 hours

CLEANING OF TOOLS:

Water

SPECIFICITIES:

Mix well before use.

Technical data

FINISH (Gardner 60°):

Satin: 35 +/- 5

COLOURS:

Stock colours: White.

RAL, NCS and bespoke colours.

Available on RD Coatings dispensing system.

DENSITY:1.2 +/- 0.05 g/cm³**SOLIDS CONTENT:**

In weight: 47 % +/-2

In volume: 39 % +/-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 | |
|  | 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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