



New Guard Coatings Group

A global reputation to protect.

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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.

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

Technical sheet : RD-Hydropox

Description of the product

USE:

Coating system for floors and walls specially formulated for the long-term protection against wear, abrasion, and chemical spills.

FEATURES:

RD-Hydropox is a two-component water-based epoxy for indoor use. It protects various type of surfaces against intensive wear, abrasion, soiling, and other aggressive chemicals such as solvents, cleaning agents, etc.

RD-Hydropox is indicated for the protection of industrial floors, garages, car parks, workshops, ...; walls and floors requiring frequent and intensive cleaning like in the food industry; and any other equipment or infrastructure subject to intensive or aggressive use: drainage channels, water tanks (non-potable), machinery, etc.

RD-Hydropox is water-based, easy to handle, safe and has no fire risks.

It does not contain any solvents neither any VOCs.

Virtually odour free, it does not affect neighbouring occupants and can therefore be used in occupied buildings.

RD-Hydropox is formulated with high quality raw materials. After drying, the coating forms a hard and wear resistant film that will resist to intensive traffic and cleaning.

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

SUBSTRATES:

Can be applied directly to almost any concrete, cement, and masonry surface.

For ferrous and non-ferrous metals, first apply one or two coats of RD-Monoguard.

For synthetic substrates (hard), glass, ... first apply a layer of RD-Multiprim.

Systems

Floors: Industrial floors, car parks, garages:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Hydropox	210 / 8,4	105 / 4,2	0,30 Kg / 194	1 st layer diluted with 10% water if the surface is porous.
Finish	RD-Hydropox	210 / 8,4	105 / 4,2	0,30 Kg / 194	
TOTAL			210 / 8,4	0,60 Kg / 97	

Walls: concrete, cement or ceramics:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Hydropox	140 / 5,6	70 / 2,8	0,20 Kg / 290	1 st layer diluted with 10% water if the surface is porous.
Finish	RD-Hydropox	140 / 5,6	70 / 2,8	0,20 Kg / 290	
TOTAL			140 / 5,6	0,40 Kg / 145	

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-Hydropox. 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-Hydropox.

On ferrous and non-ferrous metals (hard, not flexible):

Apply a first coat of RD-Monoguard followed by RD-Hydropox.

On synthetic surfaces (hard, not flexible) or glass:

Apply a first coat of RD-Multiprim followed by RD-Hydropox.

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 %

Dew point > 3°C (5°F)

The screed may not contain more than 4% humidity.

APPLICATION MEANS:

Brush, roller, or airless-spraying equipment (nozzle opening: 021-023)

PREPARATION OF THE SUBSTRATE:

The substrate must be dry, degreased and dust-free.

Smooth screeds must be treated beforehand, different options are possible:

- Sand the surface to obtain roughness
- Lightly etch the surface with an acidic solution
- Apply a layer of RD-Multiprim.

Repairs on concrete should be made using RD-Cement Filler.

MIXING RATIO:

By weight: Component A: 860 g - Component B: 140 g

By volume: 4,8 : 1

The hardener and the base must be mixed scrupulously respecting the indicated ratio. Do not leave product in the bottom of the hardener packaging. A bad mixture can cause damage, such as bubbles, poor hardening, matt and weaker spots.

Mixing:

- Mix mechanically long enough (for +/- 3 minutes for 15 kg of product) the two components until a uniform mass of one colour is obtained.
- After mixing, let the mixture rest for about 5 minutes to allow the product to cool and eliminate the formation of air bubbles.

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: after 8 hours

Recoatable:

- at 10° C / 50° F, at least 24 hours and 48 hours maximum,
- at 20° C / 68° F, at least 12 hours and 48 hours maximum.

In the event of a longer overcoating time, it will be imperative to sand the first layer to ensure optimal adhesion of the next layer.

Final hardness after 7 days

RD-Hydropox needs 72 hours at 20° C/68° F to obtain maximum mechanical properties. For full chemical resistant properties, 7 days are required at a temperature of 20° C/68° F.

This means that during this period, no liquids, including water, should come in contact with the coating.

CLEANING OF TOOLS:

Water

SPECIFICITIES:

Mix well before use.

Technical data**FINISH (Gardner 60°):**

Satin +/- 50% +/- 5

COLOURS:

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

DENSITY:

1.45 +/- 0.05 g/cm³

SOLIDS CONTENT:

In weight: 65 % +/-2
In volume: 50 % +/-2

VISCOSITY:

40 - 70 P (Brookfield 20RPM)

VOC CONTENT:

0 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
PENCIL HARDNESS	ISO 15184
PERSOZ HARDNESS	ISO 1522
CHEMICAL RESISTANCE	INTERNAL TESTINGS
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.

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