

Technical sheet : RD-Elastodeck

USE:

Single-component liquid waterproofing system for roofs, decks and balconies.

FEATURES:

Water-based coating based on special resins for the waterproofing of flat surfaces. RD-Elastodeck is very easy to use and can be applied in less than a day in favourable weather conditions. Very effective, it can be applied over a broad range of different type of substrates including old bitumen roofs or fibre-cement. It's an excellent waterproofing system for small 'til large scale projects. When renovating a flat surface, using RD-Roof Fleece is strongly recommended and will extend considerably the lifespan of the system.

RD-Elastodeck 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-Elastodeck is UV resistant and is meant to be applied as primer and finishing coat. It should be top coated by other RD Coatings systems in case the surface will be subject to wear like foot or car traffic. Its permanent 200% elasticity enables it to adhere even on flexible or soft surfaces like roofing. It is a Dry Fall coating; any overspray turns into dry dust and can easily be removed.

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

SUBSTRATES:

Concrete, weathered PVC and EPDM membranes, old bituminous membrane (> 1 year), cement, fibre-cement, ...

| Flat roofs and slopes < 4% in rainy temperate and continental climate. | | Wet film thickness in microns / mils | Dry film thickness in microns / mils | Consumption per m ² / ft ² per gallon | Comments |
|--|-------------------|---|--------------------------------------|---|-------------------------|
| | RD-Roof Fleece | The Fleece is unrolled on the roof prior to applying the coating. | | | |
| Primer | RD-Elastodeck | 320 / 13 | 175 / 7 | 0,40 Kg / 128 | High lifespan > 10years |
| Finish | RD-Elastodeck (*) | 1270 / 51 | 705 / 28 | 1,60 Kg / 32 | |
| TOTAL | | | 880 / 35 | 2 Kg / 25 | |

(*) The indicated thickness is achievable in one coat when spraying with an airless device in favourable weather conditions. Several layers may be necessary when applied by other means or less favourable weather conditions.

| Flat roofs and slopes < 4% in dry temperate and continental climate. | | Wet film thickness in microns / mils | Dry film thickness in microns / mils | Consumption per m ² / ft ² per gallon | Comments |
|--|-------------------|---|--------------------------------------|---|-------------------------|
| | RD-Roof Fleece | The Fleece is unrolled on the roof prior to applying the coating. | | | |
| Primer | RD-Elastodeck | 320 / 13 | 175 / 7 | 0,40 Kg / 128 | High lifespan > 10years |
| Finish | RD-Elastodeck (*) | 875 / 35 | 480 / 20 | 1,10 Kg / 46 | |
| TOTAL | | | 655 / 27 | 1,50 Kg / 34 | |

(*) The indicated thickness is achievable in one coat when spraying with an airless device in favourable weather conditions. Several layers may be necessary when applied by other means or less favourable weather conditions.

| Roofs and slopes > 4%, fibre-cement tiles, concrete tiles, bituminous tiles, ... | | Wet film thickness in microns / mils | Dry film thickness in microns / mils | Consumption per m ² / ft ² per gallon | Comments |
|--|-------------------|--------------------------------------|--------------------------------------|---|-------------------------|
| Primer | RD-Elastodeck | 255 / 10 | 140 / 5,6 | 0,32 Kg / 160 | High lifespan > 10years |
| Finish | RD-Elastodeck (*) | 255 / 10 | 140 / 5,6 | 0,32 Kg / 160 | |
| TOTAL | | | 280 / 11 | 0,64 Kg / 80 | |

Risks of chemical spills or next to aggressive exhausts:

The system can be top coated by one or two coats of RD-Hydrograff HP.

| Risks of ponding water for several days. | | Wet film thickness in microns / mils | Dry film thickness in microns / mils | Consumption per m ² / ft ² per gallon | Comments |
|--|-------------------|---|--------------------------------------|---|-------------------------|
| | RD-Roof Fleece | The Fleece is unrolled on the roof prior to applying the coating. | | | |
| Primer | RD-Elastodeck | 320 / 13 | 175 / 7 | 0,40 Kg / 128 | High lifespan > 10years |
| Intermediate | RD-Elastodeck (*) | 1040 / 42 | 575 / 23 | 1,30 Kg / 39 | |
| Finish | RD-Elastodeck (*) | 1040 / 42 | 575 / 23 | 1,30 Kg / 39 | |
| TOTAL | | | 1325 / 53 | 3,00 Kg / 16 | |

(*) The indicated thickness is achievable in one coat when spraying with an airless device in favourable weather conditions. Several layers may be necessary when applied by other means or less favourable weather conditions.

| Balconies & decks | | Wet film thickness in microns / mils | Dry film thickness in microns / mils | Consumption per m ² / ft ² per gallon | Comments | |
|---|------------------------------|--------------------------------------|--|---|-----------------------|-------------------------|
| W A T E R L A P A R Y O E O R F I N G | Primer on porous surface | RD-Unifix | | 0,10 L / 405 | Depending on porosity | |
| | Primer on non-porous surface | RD-Elastodeck diluted with 25% water | 245 / 10 | 100 / 4 | 0,30 Kg / 167 | High lifespan > 10years |
| | | RD-Roof Fleece | The Fleece is unrolled on the dry primed surface | | | |
| | Finish | RD-Elastodeck (*) | 1365 / 55 | 750 / 30 | 1,70 Kg / 30 | |
| | TOTAL | | | 750 / 30 | 2,00 Kg / 25 | |
| (*) The indicated thickness is achievable in one coat when spraying with an airless device in favourable weather conditions. Several layers may be necessary when applied by other means or less favourable weather conditions. | | | | | | |

| | | | | | | |
|--------------------------------------|------------------------|------------------------|---------|----------|--------------|--------------|
| W L E A Y R E R | Household foot traffic | | | | | |
| | Finish | RD-Monofloor PU | 200 / 8 | 85 / 3,4 | 0,20 L / 200 | 1 or 2 coats |
| | Intensive traffic | | | | | |
| | Finish | RD-Hydrograff HP Gloss | 105 / 4 | 50 / 2 | 0,10 L / 390 | 1 or 2 coats |

Weathered EPDM and PVC membranes:

Apply a first coat of RD-Elastodeck diluted with 25% water as primer.

Because of various qualities of membranes on the market, always perform an adhesion test first.

Indicated consumption is theoretical and does not consider potential losses during application. It can also be influenced by the porosity of the substrate.

Where there is a risk of aggressive chemical splashes, or in the vicinity of aggressive exhausts, the system can be covered with one or two coats of RD-Hydrograff HP Satin or Gloss.

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 airless (nozzle size: 015-023)

Application by airless is recommended and makes it easier to reach the recommended thicknesses. Use a device that allows a minimum pressure of 180 bar / 2600 psi at the outlet.

PREPARATION OF THE SUBSTRATE:

The surface must be clean, dust-free and dry.

In case of mosses on the support, remove it with a special anti-moss product.
Repair cracks using RD-Acryl W.

Use RD-Cement Filler to perform concrete repairs.

ATTENTION: for all types of supports, the interior spaces must be equipped with steam barriers and sufficient roof ventilation to avoid the formation of condensation under the roof covering.

Sufficient slope must be provided to the waterways to collect rainwater.

DILUTION:

Product is ready-for-use. Otherwise dilute with water on porous or smooth surfaces or when applying in warm weather conditions (> 25°C / > 77°F).

DRYING TIME (20°C - 68°F):

Touch dry: +/- 3 hours
Recoatable: +/- 6 hours depending on the thickness.

CLEANING OF TOOLS:

Water

SPECIFICITIES:

Mix well before use.
RD-Elastodeck has a very high hiding power, it may be advisable in some cases to use a different colour for the first and second coat for better recognition.

FINISH (Gardner 60°):

Satin - 15% +/- 5

COLOURS:

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

DENSITY:

1.25 +/- 0.05 g/cm³

SOLIDS CONTENT:

In weight: 66 % +/-2
In volume: 55 % +/-2

VISCOSITY:

200 - 300 P (Brookfield 20RPM)

VOC CONTENT:


< 7 g/L

FLASH POINT:

Not flammable

STORAGE:

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

| | |
|---|--|
| LEEDV4 VOC EMISSIONS | CDPH/EHLB/Standard Method V 1.2 |
| WATERPROOFING TO CLEAR WATER | INTERNAL TESTS |
|  | ISO 16000-6 / COV classification in France |

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.

VERS. R011/230222

