



New GuardCoatingsGroup

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		Date: June 4, 2026
	RD-ELASTODECK	Supersedes: 2026/05/20
		R011

Single-component, waterborne liquid waterproofing coating designed for long term protection and renovation of roofs, decks and balconies.



DESCRIPTION OF THE PRODUCT

FEATURES: **RD-Elastodeck** is a single-component, water-based liquid waterproofing coating designed for long term renovation and life extension of roof membranes, decks and balconies. Based on special elastomeric resins, it forms a seamless, UV-resistant and permanently elastic membrane ($\approx 200\%$) that adapts to substrate movements and effectively prevents water ingress.

RD-Elastodeck is an efficient waterproofing solution for both small- and large-scale projects. Easy to apply and fast-drying, it helps reduce application time and overall downtime when applied under favorable weather conditions.

It adheres to a wide range of properly prepared substrates, including concrete, fiber-cement, aged bituminous membranes, PVC and EPDM. When combined **with RD-Roof Fleece**, the system provides enhanced crack-bridging performance and significantly extends the service life of the newly applied membrane.

RD-Elastodeck is fully compatible with **RD-Sunguard**, allowing the creation of **Cool Roof** systems with high solar reflectance and durable UV-resistant reflective finishes.

RD-Elastodeck is a Dry Fall coating; any overspray dries into dust and can easily be removed.

Virtually odor-free, non-flammable and fast-drying, it is ideally suited for application in densely occupied areas and in sites where solvent emissions are restricted or prohibited, including sensitive industrial and commercial environments, ensuring safe use and minimal operational disruption.

RD-Elastodeck is part of the **SCS – Single Coating System** product range. An SCS system means that a single product provides all functions: primer, intermediate coat and topcoat.
One product, multiple layers, full protection.

For surfaces exposed to mechanical wear, such as pedestrian traffic, a suitable RD Coatings floor coating system is required.

TYPICAL APPLICATION:

- ✓
- ✓ Renovation and life extension of EPDM, PVC and bitumen roofing membranes
- ✓ Waterproofing of decks and balconies
- ✓ Cool Roof systems
- ✓ Encapsulation of asbestos
- ✓ Maintenance and refurbishment projects

KEY FEATURES & BENEFITS:

- ✓
- ✓ Water-based formulation, low VOC and environmental impact
- ✓ Non-flammable – no fire risk
- ✓ Fast drying – reduced downtime and site occupancy disruption
- ✓ REACH compliant, PFAS, APEO and heavy metals free

SUBSTRATES:

- ✓
- ✓ EPDM, PVC, Bituminous roofing membranes
- ✓ Mineral surfaces, concrete, cement, corrugated fiber-cement, tiles
- ✓ Existing paints & coatings such as epoxies, polyurethanes, alkyds, acrylics...

Also suitable for many other properly prepared substrates.

RECOMMENDED SYSTEMS

LOW-SLOPE ROOFS ($\leq 10\%$)

Application on existing roof membranes with no ponding water.

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption $\pm$ (**)	Total theoretical coverage $\pm$ (**)
RD-Roof Fleece + RD-Elastodeck	900 μm 36 mils	3	2 Kg/m ²	0.5 m ² /Kg 25 sq-f/gal

Lay down RD-Roof Fleece onto the surface. The first coat of RD-Elastodeck is then applied over the fleece using a roller or brush to fully embed it into the coating and bond it to the substrate.
Apply the remaining coating in one or more coats.

For application on existing EPDM and PVC membranes or other smooth surfaces,

First apply a base coat of RD-Elastodeck diluted with 5% water.

After drying, lay down RD-Roof Fleece onto the base coat and apply a full coat of RD-Elastodeck using a roller or brush to fully embed the fleece into the coating and bond it to the surface.

Apply the rest of the coating in one or several layers.

Roof membranes or areas with ponding water:

Increase total thickness in those areas. Apply fleece and if necessary, diluted basecoat as explained above.

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption $\pm$ (**)	Total theoretical coverage $\pm$ (**)
RD-Roof Fleece + RD-Elastodeck	1325 μm 53 mils	3	3 Kg/m ²	0.34 m ² /Kg 17 sq-f/gal

HIGH-SLOPE ROOFS ($> 10\%$)

Application on fiber-cement, bituminous and concrete tiles.

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption $\pm$ (**)	Total theoretical coverage $\pm$ (**)
RD-Elastodeck	275 μm 11 mils	2	0.6 Kg/m ²	1.63 m ² /Kg 82 sq-f/gal

Due to the wide variety of membrane types and surface conditions on the market, an adhesion test must always be carried out prior to application.

OPTIONAL FINISHES ON ROOFS SYSTEMS

RD-Elastodeck may pick up dirt over time. When a cool roof or more aesthetical finish is required, or to make the coating system more resistant to foot traffic, following products can be used as a finish coat on top of the RD-Elastodeck waterproofing system.

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption $\pm$ (**)	Total theoretical coverage $\pm$ (**)
Aesthetics, tight, neat and clean finish (2 options). Prefer RD-Monoguard in the presence of ponding water.				
RD-Aquatop PU	50 μm 2 mils	1	0.13 L/m ²	7.8 m ² /L 315 sq-f/gal
RD-Monoguard	75 μm 3 mils	1	0.17 L/m ²	5.7 m ² /L 230 sq-f/gal
Occasional contact with chemicals. 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.				
RD-Hydrograff HP	50 μm 2 mils	1	0.10 L/m ²	10 m ² /L 400 sq-f/gal
Solar reflective cool roof finish				
RD-Sunguard	40 μm 1.6 mils	1	0.1 L/m ²	10 m ² /L 440 sq-ft/gal
Foot traffic, security lines (2 options) – 1 or 2 coats depending on expected traffic.				
RD-Monofloor PU <i>for low to moderate traffic</i>	75 μm 3 mils	1	0.20 L/m ²	5 m ² /L 200 sq-f/gal
RD-Hydrograff HP <i>for intensive traffic</i>	50 μm 2 mils	1	0.10 L/m ²	10 m ² /L 400 sq-f/gal

BALCONIES AND DECKS

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption $\pm$ (**)	Total theoretical coverage $\pm$ (**)
1.A. Primer/Impregnation in case of porous surface				
RD-Unifix	To saturation	1	0.1 L/m ²	10 m ² /L 400 sq-f/gal
1.B. Primer in case of non-porous surfaces. Dilute up to 20% with water if very smooth.				
RD-Elastodeck	100 μm 4 mils	1	0.22 Kg/m ²	4.48 m ² /Kg 225 sq-f/gal
2. Waterproofing layer				
RD-Elastodeck	750 μm 30 mils	2	1.7 Kg/m ²	0.6 m ² /Kg 30 sq-f/gal
3.A. Finish coat – low to moderate wear/traffic				
RD-Monofloor PU	150 μm 6 mils	2	0.4 L/m ²	2.5 m ² /L 100 sq-f/gal
3.B. Finish coat – intensive wear/traffic				
RD-Hydrograff HP	100 μm 4 mils	2	0.20 L/m ²	5 m ² /L 200 sq-f/gal

(*) Number of coats

Depends on the application method, tools used and site conditions. Certain application methods may require additional coats. Achieving the specified dry film thickness in fewer coats is not recommended and may not be technically feasible.

() Theoretical consumption**

Values are theoretical and may vary depending on surface profile, shape, roughness, porosity, application method and site conditions. Higher consumption should be anticipated.

RD-Elastodeck has a very high hiding power. To ensure uniform coverage and the specified film thickness, it is recommended to use different colours for successive coats, allowing easy visual control and avoiding missed areas.

For project-specific recommendations, please contact your RD Coatings representative.

APPLICATION INSTRUCTIONS

APPLICATION CONDITIONS:

Ambient temperature:

- Minimum: 5°C | 41°F – beware on condensation risks and slow drying
- Optimal: 12-25°C | 54-77°F

Relative humidity: **maximum 80 %**
Surface temperature: minimum **3°C | 5°F above dew point**.
Avoid application during winter conditions or periods with high condensation risk.

APPLICATION METHODS:

Brush
Roller
Airless spray (recommended):

- Nozzle size: 0.015–0.023
- Pressure: 180 bar | 2600 psi

Note: Additional coats may be required depending on the application method.

SURFACE PREPARATION:

General:
The substrate must be clean, dry, degreased, and free from dust, salts, oil, grease, and all non-adherent materials prior to application.
If the substrate is affected by moss or biological growth, remove it using a suitable anti-moss treatment.
RD-Eco PowerClean is recommended as a pre-cleaning agent. Apply RD-Eco PowerClean, allow to react for 10–15 minutes, then rinse thoroughly using high-pressure water.

Repair cracks using RD-Acryl W. Use RD-Cement Filler to carry out major 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.

Note: Surface preparation may affect finish and performance. Contact your RD Coatings representative for guidance.

DILUTION:

Product is ready-for-use.
Dilute with **maximum 3%** water when applying by airless or in warm weather conditions (> 25°C / > 77°F).

DRYING TIME:
(20°C | 68°F)

Touch dry: ± 3 hours
Recoatable: ± 6 hours – No maximum recoating window.
Drying times also depend on film thickness and ambient humidity.

CLEANING OF TOOLS:

Water.

SPECIFICITIES:

Mix homogenously with a paddle mixer at low speed.

TECHNICAL DATA

FINISH:	Satin $\pm 15\%$ +/- 5 (Gardner 60°), depending on the shade.
COLORS:	White. RAL, NCS and bespoke colors available via the RD Coatings tinting system.
DENSITY:	1.25 ± 0.05 Kg/L ± 10.4 lb/gal (US)
SOLIDS CONTENT:	In weight: $66\% \pm 2$ In volume: $55\% \pm 2$ 180 - 250 P (Brookfield 20RPM)
VISCOSITY:	< 7 g/L 0.06 lb/gal (US)
VOC CONTENT:	Non-flammable.
FLASH POINT:	24 months: keep away from heat and frost
STORAGE STABILITY:	

PERFORMANCE STANDARDS & TEST RESULTS

Standard / Norm	Short description	Result
ISO 7784-2 / ASTM D4060	Abrasion resistance (Taber test, CS-10 wheel, 1000 cycles)	85 mg loss
ISO 1519	Flexibility – cylindrical mandrel bending ($\varnothing$ 2 mm)	No cracking or delamination
ASTM D522	Flexibility – conical mandrel bending	No cracking or delamination
	Pendulum hardness (Persoz)	
	Pencil hardness	70 s
ISO 1522	Impact resistance (direct & indirect)	F
ISO 15184	Indoor air VOC emissions	> 4.5 Nm (good flexibility)
ASTM D2794	Restricted substances compliance	A+
ISO 16000-6		Compliant
Living Building Challenge v4.0		

– Red List

DoP, EPD and/or performance criteria with more details are available upon request.

SAFETY DATA

Information related to hygiene and safety can be found in the Safety Data Sheet available on request.

DISCLAIMER

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.