



New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

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-Sunguard

Description of the product

USE:

High performance solar reflective coating - Cool Roof system

FEATURES:

Single component water-based solar reflective coating based on new generation of resins enabling the coating to boost its solar reflective properties.

Thanks a high solar reflective index (SRI) over 110, to its special pigmentation, very high UV and excellent dirt pick-up resistance, and self-cleaning properties, RD-Sunguard helps to keep and maintain the surface white and clean to ensure maximum solar and heat reflection over time.

RD-Sunguard 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 and increases on-site labour productivity.

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

RD-Sunguard ensures long-lasting performances, whether it is energy savings, better thermal comfort or lower heat effect.

SUBSTRATES:

RD-Sunguard can be used on most kind of surfaces providing first the application of an adequate primer coat (see table with systems)

Systems

BITUMINOUS SURFACES

Sound bituminous roofing > 1 year		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First coat	RD-Elastodeck	800 / 32,5	440 / 17,5	1,00 Kg / 50	Contact us for new bituminous roofing.
Second coat	RD-Sunguard	90 / 3,6	40 / 1,6	0,09 L / 440	
Old bituminous roofing with potential for water infiltration and cracking		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First coat	RD-Elastodeck + RD-Roof Fleece	1600 / 65	875 / 35	2,00 Kg / 25	See our "How to renovate a bituminous roofing" solution for details.
Second coat	RD-Sunguard	90 / 3,6	40 / 1,6	0,09 L / 440	

METAL SURFACES

Sound metal roof with a slope > 4%		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First coat	RD-Elastometal	305 / 12,3	175 / 7	0,40 Kg / 120	Consult our "Metal roof renovation" solution for a complete specification.
Second coat	RD-Sunguard	90 / 3,6	40 / 1,6	0,09 L / 440	

Metal roof with moderate corrosion and slope > 4%		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First coat	RD-Elastometal	460 / 18,5	260 / 10,5	0,60 Kg / 80	Consult our "Metal roof renovation" solution for a complete specification.
Second coat	RD-Sunguard	90 / 3,6	40 / 1,6	0,09 L / 440	

Metal roof with corrosion and/or infiltration problems and a slope > 4%		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First coat	RD-Elastometal (système Classique)	615 / 24,6	350 / 14	0,80 Kg / 40	Consult our "Metal roof renovation" solution for a complete specification.
Second coat	RD-Sunguard	90 / 3,6	40 / 1,6	0,09 L / 440	

Metal objects located in a class C3 corrosive environment		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First coat	RD-Monoguard	200 / 8	85 / 3,4	0,2 L / 200	Estimated lifetime > 15 years.
Second coat	RD-Sunguard	90 / 3,6	40 / 1,6	0,09 L / 440	

Metal objects located in a class C4 corrosive environment		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First coat	RD-Monoguard		150 / 6	0,34 l / 117	Minimum two layers.
Second coat	RD-Sunguard	90 / 3,6	40 / 1,6	0,09 L / 440	

Metal objects located in a class C5 corrosive environment		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
First coat	RD-Monoguard		200 / 8	0,47 l / 85	Minimum two layers.
Second coat	RD-Sunguard	90 / 3,6	40 / 1,6	0,09 L / 440	

In case of problematic surfaces like highly corroded, leaking, peeling ... refurbish first the surface as described in our Solution pages or contact your RD representative for advice.

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: 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: 010-012)

PREPARATION OF THE SUBSTRATE:

The substrate must be clean: dry, degreased and dust free. Non adhering elements such as older coatings must be removed. Consult our system page for the appropriate primer coat.

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 : +/- 30 minutes

Dust free : +/- 45 minutes

Dry : +/- 1 hour

CLEANING OF TOOLS:

Water.

SPECIFICITIES:

Mix well before use.

Technical data

FINISH:

Soft +/- 10% (Gardner 60°)

COLOURS:

White.

DENSITY:

1,10 +/- 0,05 g/cm³

SOLIDS CONTENT:

In weight: 50 %

In volume: 44 %

VISCOSITY:

100-150 P (Brookfield 20RPM)

VOC CONTENT:

< 25 g/L


FLASH POINT:

Not flammable.

STORAGE STABILITY:

Minimum 24 months protected from frost and excessive temperatures in its original closed packaging.

Norms and tests

SOLAR REFLECTIVE INDEX	ASTM E-1980	> 110
TSR – TOTAL SOLAR REFLECTANCE	EN 14500 part B and EN 410	> 88 %
NEUTRAL SALTSPRAY	ISO 12944	-
 ÉMISSIONS DANS L'AIR INTÉRIEUR A+	ISO 16000-6 / VOC 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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