

Technical sheet : RD-Elastoflex

Description of the product

USE:

Breathable waterproofing system for concrete, walls and façades; protects against weathering, carbonation and water ingress.

FEATURES:

Single component water-based elastomeric coating formulated with pure acrylic resins and high-quality pigments. RD-Elastoflex will protect the surface against water ingress while allowing water vapour to escape through the paint film. This will prevent moisture and polluted air being trapped inside the building. Its high elasticity (> 600%), maintained also during winters, helps to bridge cracks and maintain the film properties durably. On constructions with active cracks, the use of RD-Mur Fleece is highly recommended to strengthen the system and guarantee its performance over the years.

RD-Elastoflex 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-Elastoflex is UV resistant and is meant to be applied as primer and finishing coat.

With its excellent dirt pick up resistance, the coating stays neat and tidy over time. RD-Elastoflex complies with the requirements of EN 1504-2 as a protective coating for concrete (principles 1.3 / 2.3 / 8.3 according to EN 1504-9: 2006) and has a CE marking.

RD-Elastoflex protects millions of square meters of valuable assets worldwide 24/7 including iconic architectural buildings, governmental or commercial offices.

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

SUBSTRATES:

New and old masonry - Cement - Concrete

Systems

Unpainted porous substrates – option 1: following the specifications of EN 1504-2		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Elastoflex	258 / 10,3	155 / 6	0,40 Kg / 157	diluted with maximum 10% water
Finish	RD-Elastoflex	258 / 10,3	155 / 6	0,40 Kg / 157	
TOTAL			310 / 12	0,80 Kg / 78	

Unpainted porous substrates – option 2:		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Impregnation	RD-Unifix			0,10 L / 400	depends on porosity
Primer	RD-Elastoflex	258 / 10,3	155 / 6	0,40 Kg / 157	
Finish	RD-Elastoflex	258 / 10,3	155 / 6	0,40 Kg / 157	
TOTAL			310 / 12	0,80 Kg / 78	

In case of active cracks		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Mesh	RD-Mur Fleece	Unroll the fleece prior to applying the coating and brush the first layer through it.			
Primer	RD-Elastoflex	258 / 10,3	155 / 6	0,40 Kg / 157	diluted with maximum 10% water
Finish	RD-Elastoflex	258 / 10,3	155 / 6	0,40 Kg / 157	
TOTAL			310 / 12	0,80 Kg / 78	

On a smooth surface:

Apply a first coat of RD-Elastodeck diluted with 25% water or a coat of RD-Multiprim.

On non-powdering existing paint - aesthetical fresh-up:

The number of coats is directly depending on the orientation of the wall. If the wall is often facing pouring rain, it is advised to apply, all in all, 2 coats of RD-Elastoflex. For other walls, 1 coat is enough. If the paint is powdering, apply a first coat of RD-Unifix. Repair cracks beforehand!

Risk of chemical spills or graffiti:

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

On wood panels:

Thanks to its permanent elasticity and high-quality ingredients, RD-Elastoflex shows superior performances compared to many other coatings when applied on exterior wood panels. Use an appropriate primer to block the stain if any and apply two layers of RD-Elastoflex.

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)

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 substrate has to be clean, dry, and free of dust.

New masonries must be cleaned first with an iron brush to eliminate all spatters of mortar.

Painted substrates should be cleaned with a high-pressure washing machine.

If the support is mossy, the moss must be removed with a special anti-moss product. Fill up the cracks with RD-Acryl W.

Active cracks should be reinforced with RD-Mur Fleece.

Use RD-Cement Filler to repair important repairs on concrete.

DILUTION:

Product ready for use.

RD-Elastoflex can be diluted by maximum 10% with water by warm weather (> 25°C / 77°F) for a better wettability.

DRYING TIME (20°C - 68°F):

Touch dry: +/- 2 hours

Recoatable: +/- 24 hours

CLEANING OF TOOLS:

Water

SPECIFICITIES:

Mix well before use. RD-Elastoflex has a very high hiding power, we advise therefore to use different colours for the first and second coat for better recognition.

Technical data

FINISH (Gardner 60°):

Mat - 5% +/- 5

COLOURS:

Stock colours: White.

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

DENSITY:

1.55 +/- 0.05 g/cm³

SOLIDS CONTENT:

In weight: 72 % +/-2

In volume: 60 % +/-2

VISCOSITY:

200 - 220 P (Brookfield 20RPM)

VOC CONTENT:

< 30 g/L

FLASH POINT:

Not flammable

STORAGE:

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

Norms and tests

CE Certificate	EN 1504-2 :2004
CHLORIDE PENETRATION RESISTANCE	NT Build 489
BOND STRENGTH BY PULL-OFF	EN 1542
FREEZE THAW THERMAL SHOCK	EN 13687-1
THUNDER SHOWER THERMAL SHOCK	EN 13687-2
CRACK BRIDGING	ASTM D1305
CRACK BRIDGING	EN 1062-7
CRACK BRIDGING AFTER UV	EN 1062-7
CAPILLARY ABSORPTION	EN 1062-3
TENSILE STRENGTH AND ELONGATION	ASTM D412
MOISTURE VAPOR TRANSMISSION	ASTM D1653
RESISTANCE TO WIND DRIVEN RAIN	ASTM D6904
FUNGUS RESISTANCE	ASTM D3273/D3274
CHEMICAL RESISTANCE	ASTM D1308
WATER VAPOR TRANSMISSION	DIN EN 1062-6
CO2 DIFFUSION	DIN 53122-1
UV RESISTANCE	ISO 11507

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.