



PROTECTING STEEL MADE EASY



Most advanced
waterborne anti-corrosion
coating technology



Environmentally
friendly solutions



Suitable for
marine and industrial
environments

RD Coatings offers a superior line of water-based protective coatings for engineered structures, equipment, commercial and industrial facilities.

Our coating systems consist of highly innovative, and cost-effective long-term solutions for anti-corrosion, concrete preservation and waterproofing. These solutions comply with strict standards including ISO 12944, EN 13501, EN 1504, Leed v4 and many more.

We focus 100% of our Research & Development on waterborne solutions which provide unequalled performance worldwide, which contributes to safer and more environmentally friendly applications.

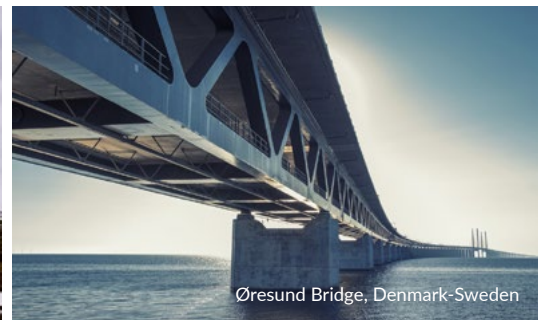
**Experts in Water-based
Technology**



STATE OF THE ART WATER-BASED TECHNOLOGY



Tank - USA



Øresund Bridge, Denmark-Sweden

RD-MONOGUARD

RD-Monoguard is the next generation in water-based anti-corrosion coatings providing long-term protection equal to traditional zinc-rich epoxy-polyurethane systems!

A unique formulation combining key performances required for metal coating: high adhesion and anti-corrosion, high resistance to water and erosion, high UV resistance and durability.

RD-Monoguard can be applied in C5 marine or industrial environments and protect steel for more than 15 years according to ISO 12944.



WATER-BASED



1 COMPONENT



RAL, NCS, BS ...



20+ High lifespan



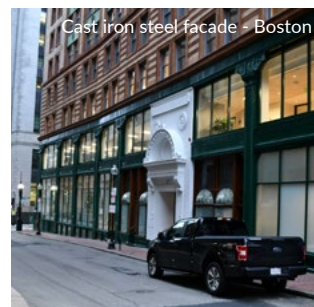
UV resistant



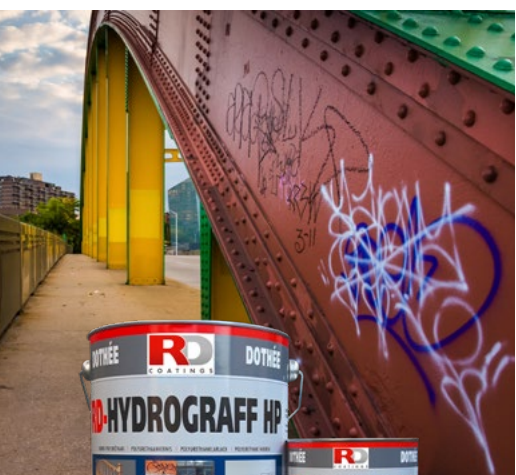
Fast drying



Surface tolerant



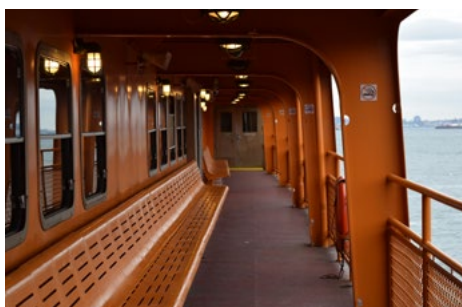
Cast iron steel facade - Boston



RD-HYDROGRAFF HP

Water-based polyurethane coating specially formulated for the long-term protection of surfaces against wear, abrasion, chemical spills, and weathering.

RD-Hydrograff HP is THE solution to protect surfaces that are subject to severe strains. Whether it is industrial equipment, floors, decks, etc. RD-Hydrograff HP offers unmatched performance. Combined with RD-Monoguard as a finish coat, the system reaches new heights in the category of anticorrosion systems for C5 industrial or marine environments according to the ISO 12944-6 standard, with HIGH durability, over 15 years!



Miró Foundation - Barcelona



WATER-BASED



2 COMPONENTS



RAL, NCS, BS ...



UV resistant



Anti-graffiti



High abrasion resistance



Resistant to chemical spills



Flexible

STATE OF THE ART WATER-BASED TECHNOLOGY



RD-ELASTOMETAL

High performance elastomeric coating combining superior anti-corrosion and waterproofing properties.

Its permanent elasticity allows it to adhere to surfaces subject to elongation and to perfectly protect complex metal objects made up of bolts, sharp edges and fittings, among other things. DTM (Direct-To-Metal) type of coating, it is used as a primer and finish. **RD-Elastometal** has a long track record of protecting metal constructions even in the most severe weather conditions.



20+High lifespan



Permanent elasticity



Dry fall



Surface tolerant



WATER-BASED



1 COMPONENT



RAL, NCS, BS ...

3 PRODUCTS, MULTIPLE COMBINATIONS...

SCS SYSTEMS

 **RD-MONOGUARD x 2**

Or

 **RD-ELASTOMETAL x 2**

COMBINED

 **RD-ELASTOMETAL - RD-MONOGUARD**

Or

 **RD-MONOGUARD - RD-HYDROGRAFF HP**

Or

 **RD-ELASTOMETAL - RD-HYDROGRAFF HP**



Water-based coatings



High performance



Limited CO2 and VOC emissions



Safe, No hazards



Tested by accredited laboratories

TYPICAL COATING SYSTEMS

PROTECTING STEEL MADE EASY

Systems for C3, C4 and C5 environments
with minimum 15 years durability:

ISO 12944:2018-5
ISO 12944:2018-9

	PAINT SYSTEM		PRIMING & SUBSEQUENT COAT (S)			TOPCOAT (S)		
	MNOC	NDFT	Product	MNOC	NDFT	Product	MNOC	NDFT
C3 High	2	180 µ / 7,2 mils	✓ RD-Metal Unicoat	2	180 µ / 7,2 mils	Unnecessary		
C3 High	2	110 µ / 4,4 mils	✓ RD-Monoguard	2	110 µ / 4,4 mils	Unnecessary		
C4 High	2	150 µ / 6 mils	✓ RD-Monoguard	2	150 µ / 6 mils	Unnecessary		
C4 High	2	120 µ / 4,8 mils	✓ RD-Monoguard	1	80 µ / 3,2 mils	✓ RD-Hydrograff HP	1	40 µ / 1,6 mils
C4 Very High	2	350 µ / 14 mils	✓ RD-Elastometal	2	350 µ / 14 mils	Unnecessary		
C5 High	2	200 µ / 8 mils	✓ RD-Monoguard	2	200 µ / 8 mils	Unnecessary		
C5 High	2	350 µ / 14 mils	✓ RD-Elastometal	2	350 µ / 14 mils	Unnecessary		
C5 High	2	150 µ / 6 mils	✓ RD-Monoguard	1	100 µ / 4 mils	✓ RD-Hydrograff HP	1	50 µ / 2 mils
C5 High	2	300 µ / 12 mils	✓ RD-Elastometal	1	220 µ / 8,8 mils	✓ RD-Monoguard	1	80 µ / 3,2 mils

NDFT: Nominal Dry Film Thickness MNOC: Minimum Number Of Coats

Systems are easy to adapt, contact your **RD Coatings** representative to obtain the right specification according to the specific needs of the project.

Examples of typical C5 High coating systems:

1. Flat regular steel sections:

- Fast drying system, full system can be applied the same day
- Smooth and semi-gloss high resistance finish

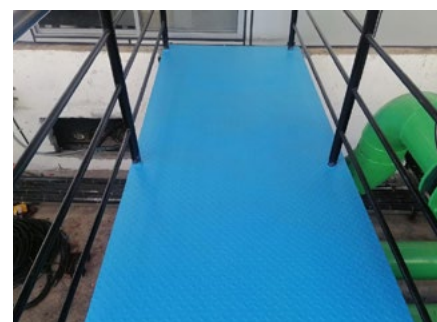
Step	Description	Detail
Surface preparation	✓ High Pressure wash	✓ Wa4 (ISO) or WJ-4 (SSPC/NACE)
First coat	✓ RD-Monoguard	✓ 100 µ / 4 mils dft
Second coat	✓ RD-Monoguard	✓ 100 µ / 4 mils dft
	✓ Dry total thickness	✓ 200 µ / 8 mils dft



2. Flat regular steel sections with needs of greater protection against chemicals, graffitis, abrasion and scratches: walkways, handrails, decks:

- High anti-corrosion properties, exceptional adherence values
- Higher resistance against wear, weathering, chemicals, etc.

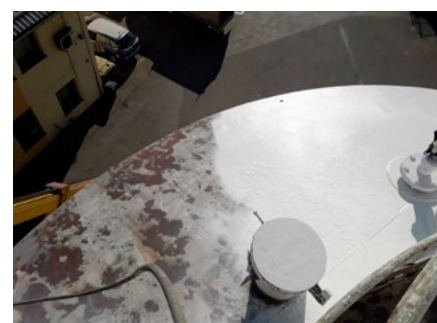
Step	Description	Detail
Surface preparation	✓ High Pressure wash	✓ Wa4 (ISO) or WJ-4 (SSPC/NACE)
First coat	✓ RD-Monoguard	✓ 100 µ / 4 mils dft
Second coat	✓ RD-Hydrograff HP	✓ 50 µ / 2 mils dft
	✓ Dry total thickness	✓ 150 µ / 6 mils



3. Flat regular steel sections with remaining paint and tightly adhering foreign matter:

- Surface tolerant coating system with incredible covering properties
- Smooth and semi-gloss high resistance finish.

Step	Description	Detail
Surface preparation	✓ High Pressure wash	✓ Wa4 (ISO) or WJ-4 (SSPC/NACE)
First coat	✓ RD-Elastometal	✓ 220 µ / 9 mils dft
Second coat	✓ RD-Monoguard	✓ 80 µ / 3,5 mils dft
	✓ Dry total thickness	✓ 300 µ / 12,5 mils



MAIN PROPERTIES

	Available on dispenser	UV resistance	Gloss level – Gardner 60° (+/-5)	Solid Content in volume (+/-)	Drying time at 20°C / 68°F – Touch dry
✓ RD-Aquafinish		Yes	Satin 40 %	29 %	1h30
✓ RD-Elastometal	Yes	Yes	Flat satin 15 %	56 %	3 h
✓ RD-Hydrograff HP	Yes	Yes	Mat 7 % Satin 35 % Glossy 80 %	50 % 49 % 48 %	6 h
✓ RD-Hydrograff HP Clear		Yes	Mat 7 % Satin 35 % High gloss 85 %	41 % 41 % 40 %	6 h
✓ RD-Metal Unicoat	Yes	Yes	Flat satin 15 %	47 %	2 h
✓ RD-Monoguard	Yes	Yes	Semi-gloss 70 %	43 %	1 h
✓ RD-Multiprim (special adherence primer)	Yes	Yes	Satin 40 %	40 %	1 h

Adhesion to various surfaces

	Steel, cast iron steel	New galvanized steel	Weathered galvanized steel	Aluminum	Stainless steel, copper	PVC
✓ RD-Elastometal	☆☆☆		☆☆☆	☆☆		
✓ RD-Hydrograff HP	in combination with RD-Monoguard, RD-Metal Unicoat, RD-Multiprim or RD-Elastometal					☆☆☆
✓ RD-Metal Unicoat	☆☆☆		☆☆☆			
✓ RD-Monoguard	☆☆☆	☆☆☆	☆☆☆	☆☆ (after sanding)	☆☆☆	☆☆☆
✓ RD-Multiprim (special adherence primer)		☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆

Very good ☆☆☆ Good ☆☆☆

PREPARING THE SURFACE USING RD-ECO POWERCLEAN

The future success of any coating system depends for the most on the quality of the surface preparation.

- RD-Eco PowerClean is a powerful biodegradable 2 in 1 alkaline concentrate formulated with special anti-flash rust additives for cleaning and degreasing surfaces before painting.
- RD-Eco PowerClean' special additives help to prevent contamination from chlorides during surface preparation and risks of flash rust during application, by leaving a temporary protective layer against salinity contained in the air.
- RD-Eco PowerClean is easy to use by simply diluting it into water to clean and degrease most kinds of surfaces prior to painting with high pressure device or spraying.
- RD-Eco PowerClean is an innovative and eco-friendly cleaning solution, highly recommended in marine and industrial environments.



METALLIC EFFECT FINISHES: RD-AQUAFINISH

Fast-drying single component high performance metallic effect finish lacquer

- Available in RAL 9006 and RAL 9007, other colorful and fancy finishes can be manufactured on request.
- RD-Aquafinish has to be applied by conventional or airless spray to obtain a smooth and high aesthetic film.
- On metallic surfaces, apply RD-Monoguard or RD-Multiprim first.



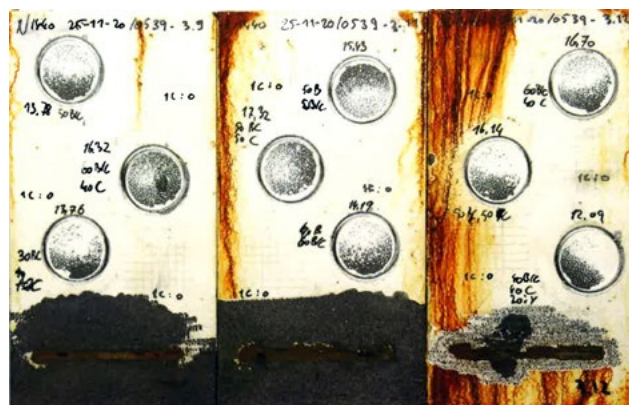
INTENSIVE TESTING & FIELD EXPERIENCE



YOUR ASSETS ARE IN SAFE HANDS!

RD Coatings water-based protective coatings have been intensively tested and are continuously monitored in the field. These High Performance coatings are protecting various industrial and architectural constructions worldwide.

- ISO 12944 – Corrosion protection of steel structures by protective paint systems
- EN 13501 – Fire classification
- ASTM D 4060 – Abrasion resistance of organic coatings (Taber)
- ISO 2409 – Pull off test
- ISO 3231 – Determination of resistance to humid atmospheres containing sulphur dioxide (Kesternich)
- Field monitoring – Danish highway agency
- Accelerated corrosion test – RH & H and Danish Technological Institute
- Performance testing of Organic Coatings for the Corrosion Protection of Railway Bridges – Transnet, South Africa.



✓ Adhesion values by pull-off of RD-Monoguard after salt spray chamber

RENOVATING METAL SIDE WALL CLADDINGS WITH RD-METAL UNICOAT



Using RD-Metal unicoat to renovate side wall claddings is fast, simple, economical, and will protect your building for years.

As a typical SCS system (Single Coating System), RD-Metal Unicoat is a two coat system to be applied directly onto most kind of metal cladding. Simply high pressure wash to obtain a clean, free of greases and moss surface before applying the system. Existing paint may remain if sufficiently adhering!

Near the sea? Or in a harsh industrial environment? Simply swap the first coat of RD-Metal Unicoat with RD-Elastometal for stronger and higher performances.



WATER-BASED



1 COMPONENT



SINGLE COATING SYSTEM



RAL, NCS, BS ...



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