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	US Revision: 5
RD-ELASTOMETAL	Date:05/15/2013
	Supersedes: 10/15/2011
	S4

DESCRIPTION OF THE PRODUCT

Waterborne, acrylic polymer, high performance, single component rust preventive coating. Forms a highly elastic seamless waterproof barrier applicable for interior and exterior applications.

USE:

Anti-Corrosion for Exposure in a Wide Variety of Environments:

- Bridges, Offshore structures, Refineries, Petrochemical & Chemical plants.
- Potable water tank exteriors.
- Storage tank exteriors; (gas, oil grain, etc.).
- Metal on buildings; (roofs, siding, lintels, flashings, ductwork, etc.).
- Steel construction; (pipe racks, piping, towers, supports, etc.).
- Equipment; (cranes, truck bodies, salt spreaders, etc.).

Special uses:

- As a primer (dilute with 20% water) on non-porous surfaces.
- Waterproofing of concrete and other porous surfaces.

FEATURES:

- VOC 8 g/litre, single package, waterborne.
- Contains no chromates, lead, or strong solvents.
- Impact and abrasion resistant, elastic (200%).
- Resistant to the effects of long-term weathering, UV light, salt water and most environmental atmospheric chemicals.
- Thixotropic non-sag properties allowing applications in thick films resulting in excellent edge protection.
- Self-priming can be used as both primer and finish coat, excellent physical and chemical bonding properties to most surfaces.

Note: RD-ELASTOMETAL "dry-fall" characteristics help to reduce the risk of overspray on buildings and surrounding property. Application methods include "dry-fall" under certain conditions (see Application).

SUBSTRATES:

Anti-Corrosion on common metal surfaces: Carbon Steel, Weathering Steel (CorTen), Galvanized Steel, Copper, Lead and Aluminium.

Note: New Galvanized and Stainless Steel surfaces may require the use of a special primer before the application of RD-ELASTOMETAL.

SYSTEM:

Over Partially Rusted Surfaces With an Existing, Well-Adhered Coating:

- All rusted areas are to receive two (2) detail coats of RD-ELASTOMETAL applied by brush or roller. Each coat is to be applied @ 4-5 mils DFT.

(In most cases it's possible to apply both detail coats in the same day.)

- After the detail coats have dried (min.12 hrs.) apply one cover coat to the entire surface @ 7-8 mils DFT using an airless sprayer.

(In some cases, especially exterior, or anywhere due to particular color and gloss requirements, a finish of RD-MUR ACRYL, or other RD Coating finish should be considered.)

Over Unpainted, Unprotected Steel Surfaces:

- Apply a first coat of RD-ELASTOMETAL @ 7-8 mils DFT.
- After drying (2-8hrs) apply the finish coat of RD-ELASTOMETAL @ 7-8 mils DFT.

(The above is a minimum system, especially for exterior exposure; a third coat of RD-MUR ACRYL may be required)

Note: Overnight drying is generally recommended between coats. However, dry rates for waterborne coatings are determined by temperature, humidity and wind.



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SYSTEM
CONTINUED:

- In fast drying conditions it is possible to apply two (2) coats in the same day.
 - When a finish coat of RD-MUR ACRYL is desired, overnight drying of RD-ELASTOMETAL is recommended. Apply to achieve 2-3 mils DFT.
 - Polymerization continues after drying. Full polymerization of RD-ELASTOMETAL requires 3-7 days cure time. Freezing temperatures should be avoided during this period.
- Note:** The above listed systems are general recommendations, for specific details contact your local RD Coatings representative.

APPLICATION INSTRUCTIONS

PREPARATION OF
THE SUBSTRATE:

The substrate has to be free of all loosely adhered rust, degreased, dry, and free of dust. Prepare substrates by pressurized water cleaning using 4,000-5,000 psi pressure equipment with a “zero” degree oscillating tip (SSPC SP-12, WJ4). Remove any remaining loose and non-adhering substrate prior to coating. Contact your local RD Coatings representative for detailed information.

APPLICATION
CONDITIONS:

Environmental Conditions (general requirements):

- The minimum air and substrate temperatures; 45°F for 24 hours.
- The maximum surface temperature; 130°F.
- The maximum relative humidity; 90%.
- Surface temperature must be at least 5°F above the Dew Point, with no threat of rain for 3 hours.

Drying Times Temperature Re-Coat Interval:

- 45°F (80%RH) 9 Hours
- 60°F (80%RH) 7 Hours
- 80°F (80%RH) 5 Hours
- 95°F (80%RH) 3 Hours

Note: The above figures are for RD-ELASTOMETAL applied @ 14 wet mils. These figures do not account for airflow; wind speeds of even 5mph will greatly reduce the dry time for RD-ELASTOMETAL.

APPLICATION
MEANS:

Brush, roller or airless spray (tip size: 015–023).

Caution: Dry overspray can be wiped or washed from most surfaces. Satisfactory dry-fall performance depends upon work height & equipment adjustment. Low temps & high humidity are of particular concern. Test for application as follows: Spray from 15-25 ft. towards paint container. The material then should readily wipe off.

Note: In some instances, heat can fuse dry overspray to some surfaces. Always clean dry overspray from hot surfaces before fusing occurs. Be aware that surface temperatures can be higher than air temperatures.

DILUTION:

Water (only for airless spray up to 3% during fast drying conditions on steel or up to 20% when used as a primer on non-porous surfaces).

CLEANING OF
TOOLS:

Water

COVERAGE:

Theoretical Coverage / 5 Gal Container:

- 660 sq. ft. @ 7 mils DFT.
- 330 sq. ft. @ 14 mils DFT.

PARTICULARITIES:

Mix before use.



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TECHNICAL DATA

FINISH:	Satin Gloss
COLORS:	Available in ten Standard Colors.
SOLIDS CONTENT:	By Weight: 64-66 % By Volume: 55-57 %
VOC CONTENT:	8 g/l
DENSITY:	Ca. 1.25
FLASH POINT:	Non-Flammable
VISCOSITY:	180 P – 220 P (Brookfield 20 Rpm).
DRYING TIME:	To Touch: 3 hours To Recoat: 3-12 hours, depending on temperature and humidity.
PACKAGING:	1 & 5 Gallon Units
STORAGE STABILITY:	<ul style="list-style-type: none">• 2 years minimum provided the original container is sealed and has been stored in a controlled environment.• Prevent from freezing.
TEST DATA:	Available upon request.
TEMPERATURE RESISTANCE:	(Dry) Continuous 180°F

SAFETY DATA

The Material Safety Data Sheet is available on request.

This Data is given for information only. Since the manufacturer is not able to check the correct application of the products, they cannot accept any responsibility for it. This technical data sheet replaces all previous editions.