

# *aqua-RC*

## **RUST CONVERTER**

### **Technical Product Data**

aqua-RC is a polymer coating containing a high molecular weight organic complex in a special non-corrosive acid base. It is designed to treat rusty iron-based metals to a protected, coated surface.

The salient features of Aqua-RC are :

- Converts iron oxide (rust) to a black ferro-organic coating that incorporates the rust as part of the coating.
- Forms a complex latex matrix which is resistant to further oxidation.
- Forms a thin semi-monomolecular coating that makes it suitable for treating moveable parts.
- A unique acid based formula allows it to quickly penetrate rusted areas and frees or separates parts that are rusted together.
- Water reducible and may be cut with water prior to use as a spray or dip. This will lower cost of application on light duty jobs.
- Produces a homogeneous reaction with the products of iron oxidation. This complexes the iron oxidation products as well as binding together both  $Fe_2$  and  $Fe_3$  simultaneously. This special property is vital, for it gives a uniform and insoluble coat that adheres strongly to the surface.
- Non corrosive and is very safe to use even though it is acidic in nature. This is due to the use of a unique de-arming agent.
- Prevents the migration of ions so that no chemical reaction can occur on the metal surface.

### **USE & APPLICATION OF AQUA-RC**

**PREPARATION:** Minimal surface preparation is necessary. Remove oil, grease, dirt, loose paint and patches of scales and hard rust. Light sand blasting or wire / emery paper scrubbing are suitable. Do not attempt to remove surface rust. AQUA-RC converts rust on contact to an inert molecular structure. AQUA-RC will work on damp metal. If metal is damp at time of application, do not dilute AQUA-RC and allow more time to dry before painting.

**APPLICATION:** Shake well prior to use. AQUA-RC may be applied by brush, roller, spray or by dipping in bath. Apply generously to rusted area and allow to dry for 45 mins. When dipping in bath, or spraying, it may be desirable to thin with water. To thin, use two parts AQUA-RC to one part water (2 to 1). Do not thin further than 2 to 1. After dipping, allow excess AQUA-RC to drip back into bath. Drip may be fan assisted. If heat is used in

drying, do not exceed 200 °F. After AQUA-RC is dry examine rusty areas. Reapply to any remaining rust colored areas. AQUA-RC turns black when the chemical reaction is complete creating a uniform, black glossy finish. Allow to dry 4-6 hours before applying a top-coat. Estimated coverage area is 10 square metre per Kilogram.

**PAINTING:** AQUA-RC is an excellent primer for all types of paints. AQUA-RC may be left as final coat, however it is recommended that a high quality top-coat be applied. It is recommended for shipbuilding structures, factory structures, storage tanks, engineering vessels and equipments, steel frames and structures, pipe lines and various other rusted surfaces prior to painting or repairing.

**DURABILITY:** The key to maintenance is understanding the fact that AQUA-RC converts the rust on the surface of ferrous metal at the molecular level. Because of its unique molecular composition, it binds the iron molecules into an inert coating that acts as a barrier between the metal and the environment. After drying, no additional rust can occur unless the AQUA-RC coating is removed or compromised in some way. When used as recommended in conjunction with a high quality paint top-coat, freedom from rust will be extended to many years. With proper maintenance of the top-coat to avoid cracking and UV deterioration AQUA-RC will protect from new rust even longer.

**CLEAN - UP:** Follow procedures commonly used for paint. Rinse brush in water. Wash hands and cloth stains with soap / lemon and water.

**SAFETY:** Contains no VOC "Volatile Organic Content." Non corrosive and is very safe to use even though it is acidic in nature.

**PACKING:** 5 Kgs. and 40 Kgs.

**MANUFACTURED BY :**

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