

# 763



## RUST TRANSFORMER®

### Description

Chesterton® 763 Rust Transformer® is a mild, natural acid based product which electrochemically transforms rust into a corrosion inhibiting protective film.

It is the labor saving way to prepare metals prior to painting. As an alternative to sandblasting, the product provides convenience, low cost, and few health or safety hazards. Flash rusting is eliminated as the thin film formed protects surfaces prior to further coating.

Unlike strong acid preparations sometimes used to prepare metals, damage to surfaces and embrittlement is never a problem with 763 Rust Transformer. This product gently but effectively converts surfaces into a receptive base coat for the application of a primer and topcoat.

Using Chesterton 763 Rust Transformer is easy. Simply remove the loose scale, clean the surface, and apply Rust Transformer. Surfaces are rendered with a protective film. For all the rusted parts and equipment in your plant, Rust + Transformer = Protection.

### Composition

Chesterton 763 Rust Transformer is an extremely active tannic acid based formula that tightly bonds and converts the iron ions in rust. 763 offers the most complete conversion of the rust possible by providing more reaction sites in the product than virtually any competitive product. The iron ions are the portion of rust that is mobile and free to form corrosion cells under a paint film. Unless the rust is removed or converted, the coating life will be dramatically reduced.

While many latex based products claim to be a primer as well as a rust converter, these products actually produce a compromised result. By the addition of latex resin, these products interfere with the chemical reaction process that converts iron oxide. Because the latex based products are thicker, the rust converting acid does not penetrate and effectively convert the rust as the water thin Rust Transformer will.

### Typical Physical Properties

Form	Liquid
Appearance	Transparent, Brown
Density	1,1 kg/l (9.1 lbs/gal)
Solubility in water	Completely soluble
pH	1.2
Coverage (typical)	19,6 m <sup>2</sup> /l (800 ft <sup>2</sup> /gal)
Reaction time	15 hours minimum
Minimum application conditions	10°C (50°F) and 50% relative humidity

Chesterton 763 Rust Transformer was formulated to be a no compromise rust converting preparation that is the best possible alternative to sandblasting. Wetting agents in the product ensure that the product creeps into blind spots and provides maximum penetration of rust. Catalysts speed the conversion process and provide a complete reaction.

The many reactive sites in the product, with no interference from pigments or fillers, grab at the iron ions and quickly convert it to a surface that is the best possible base for a primer and topcoat system.

### Applications

Transforms rust into a corrosion inhibiting coating on storage tanks, auto or truck bodies, heavy equipment, bridges, transmission line towers, ships, piers, structural steel, marine and construction sites, anywhere rust is destroying metal. Quickly and easily provides a good surface for the application of a suitable primer (please consult the primer manufacturer for suitability).

### Features

- Easy to apply
- No sandblasting
- Forms protective film
- Cleans up with water
- No strong acids
- No elaborate application equipment
- Biodegradable
- Safer for workers

## Directions

1. Remove loose and flaking rust.
2. Apply 763 Rust Transformer® to surface when relative humidity is at least 50% and temperatures are above 10°C (50°F).
3. Allow to stand 18-24 hours to insure complete reaction of organo-metallic complex.
4. Rinse excess unreacted 763 Rust Transformer from the surface with clean water.

The surface must be free of oil, dried salts, peeling paint, loose or flaking rust for the most efficient reaction. Chesterton® 763 Rust Transformer is best applied with a stiff bristled brush for deep penetration into the rusted areas although it can be sprayed or rolled on.

Chesterton 763 Rust Transformer may be applied to damp surfaces, (high relative humidity accelerates the reaction) but should not be applied in rainy weather. If rain or water come in contact with the surface within three hours of application, the complex will be washed-off before it has had time to react. The product must be reapplied.

The formation of a blue-black film is visual evidence that the reaction has taken place. To form the blue-black film requires time (18-24 hours), oxygen (air), humidity (relative humidity of 50% or more) and temperature (10°C [50°F] or more). The reaction takes place faster at higher temperatures and relative humidity.

## Safety

Before using this product, please review the Safety Data Sheet (SDS) or the appropriate safety sheet for your area.

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