

TECHNICAL BULLETIN

RUST & CALCIUM REMOVER

1) PRODUCT DESCRIPTION

RUST & CALCIUM REMOVER is an excellent and powerful water based cleaner, which contains phosphoric acid. It is fully biodegradable and has a very low toxicity. It may be used in a wide variety of applications such as:

- **General Cleaning** of metals, masonry, wood & plastics;
- **Removing oxidation & rust on metals** (steel, aluminum, copper, and many more);
- **Removing scale;**
- **Removing efflorescence** on masonry or concrete.
- **Protects steel and ferrous metals against rust for several days.**

RUST & CALCIUM REMOVER concentrate is offered in **3.78L & 18.9L formats** and/ or **750ml format ready to use.**



2) BENEFITS

RUST & CALCIUM REMOVER has some excellent cleaning capabilities without being harmful to end users or the environment. The main benefits of **RUST & CALCIUM REMOVER** are:

- Increases paint adherence on all metal substrates;
- Protects steel against rust;
- Its rapid action when cleaning calcium (efflorescence);
- Pleasant Lemon Fragrance;
- Safe for end users;
- Water based;
- Very effective cleaner;
- 100% Biodegradable;
- Non flammable.

3) PHYSICAL PROPERTIES

Appearance.....	yellow liquid
Odour	lemon
pH (Sol. 1%).....	2 - 3
Rinseability.....	excellent
Flash point.....	none
Homogeneous solution	instantaneous
Specific gravity	1.05 - 1.15
Biodegradability.....	100%

4) PROCEDURE

➤ **General Cleaning**

Apply **RUST & CALCIUM REMOVER** with a sprayer or with a pressure washer on the surface to be cleaned. **RUST & CALCIUM REMOVER** can be diluted with water for this application at ratio varying from 1:2 to 1:20 (3.78L & 18.9L formats only) depending on the application and the amount of dirt and grime being removed. **SAFE ON: Concrete, Masonry, Metals (steel, aluminum, copper), Plastics, Glass & Wood.**

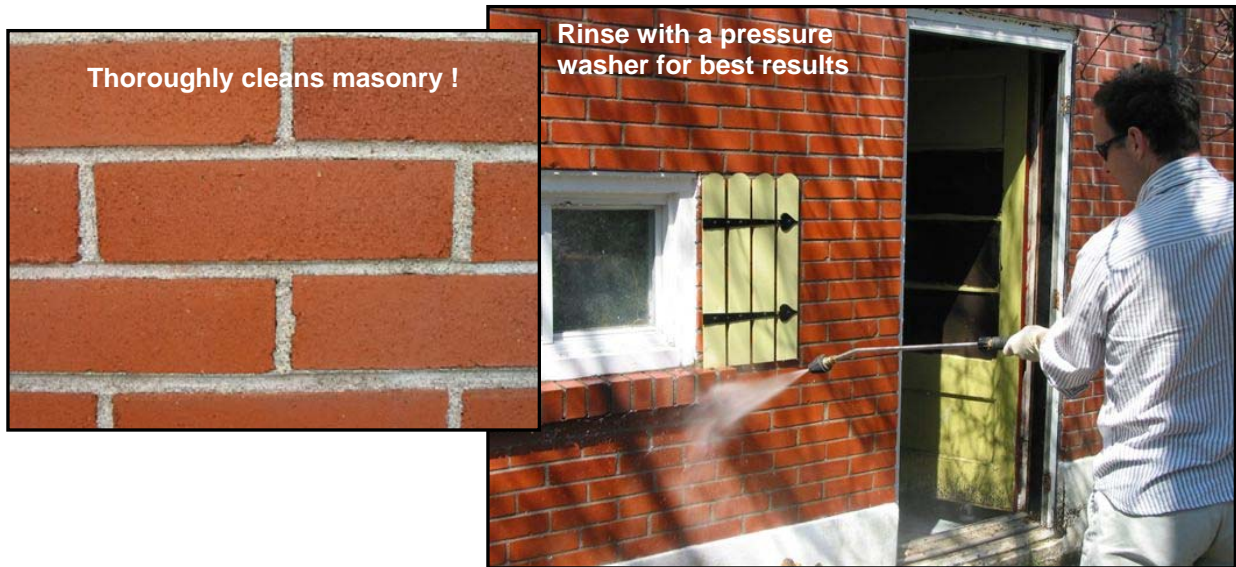
➤ **Removing rust & oxidation**

RUST & CALCIUM REMOVER is excellent to remove light oxidation or rust on metals such as steel, aluminum and copper. Apply **RUST & CALCIUM REMOVER pure or diluted (up to 1:4)** on the rusted or oxidized surface with a cloth or a sprayer. For best results, immerse parts for a period varying from a few minutes to several hours in the cleaner. Abrasion with a brush may be required to remove heavier rust accumulations. **On steel**, the phosphoric acid contained in the product will react with iron to forming iron phosphate, a **white powder that remains on the surface protecting the steel substrate from further rusting for several days**. This white powder will not affect the adherence to the substrate.

➤ **Removing calcium & efflorescence on masonry & concrete**

RUST & CALCIUM REMOVER is also excellent to remove scale deposits (calcium carbonate) from various substrates. Apply the cleaner pure or slightly diluted with water (up to 1:4). Rinse with a pressure washer for best results.

Mechanical abrasion with a rag or a brush will greatly improve the cleaning efficiency. Use warm to hot water for best results.



5) PERSONAL PROTECTION

When using **RUST & CALCIUM REMOVER**, we recommend wearing the following safety equipment:

- Safety glasses or goggles,
- Chemical resistant gloves.

6) STORAGE

Store **RUST & CALCIUM REMOVER** at a controlled temperature of 0° C to 30° C (32° F to 86° F) in a plastic container. The product will freeze below 0°C (32°F). Store in a closed plastic container when not in use. The shelf life of the product has been determined to be three (3) years.

7) PACKAGING

<u>FORMAT</u>	<u>PACKAGING</u>	<u>LABEL</u>	<u>UPC CODE</u>
Spray Bottle (750ml)	Case of 12	CCCR 2001	180709000430
Gallon (3.78 L)	Case of 4	CCCR 2001	180709000287
Pail (18.9 L)	not applicable	WHMIS	180709000409

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