



## **CAL METAL TREAT**

### Treatment on Ferrous Metals:

The flaky oxides of iron, steel and their alloys form a non-adhering layer which prevents the firm attachment of paint to the metal surface. CAL METAL TREAT chemically reacts to replace the flaky oxides on ferrous metals with an adherent phosphate coating which eliminates all possibility of corrosion under paint, and assures firm paint adhesion.

Simultaneously with its chemical action, CAL METAL TREAT produces a microscopic etch on the metal. The slightly ridged surface gives additional assurance that paint will adhere well.

### Application of ferrous metals:

Dilute one part of CAL METAL TREAT with two to nine parts of water, depending on the corrosion present and the etch desired. Remove heavy deposits of oil and grease before applying CAL METAL TREAT solution. Apply CAL METAL TREAT solution by one of the methods described above. Apply as soon as possible after the metal has been cleaned. When CAL METAL TREAT solution is sprayed onto a rough surface, such as sandblasted or pickled metal, use a non-atomizing type nozzle. When the solution is sprayed onto smooth metal, such as cold rolled steel, use an atomizing type nozzle. CAL METAL TREAT solution, applied by any recommended method, removes incipient rust such as may occur during overnight storage; applied by immersion, it removes heavier coatings of rust. Wire-brush the rust before saturating with CAL METAL TREAT solution to accelerate removal. Mill scale must be removed by other methods before application of CAL METAL TREAT solution. Allow the treated surface to dry thoroughly before painting.

### Treatment of Non-Ferrous metals:

Aluminum, aluminum alloys, tin and galvanizing have a very smooth surface to which paint adheres poorly. CAL METAL TREAT solution applied to these metals produces an etch, so that paint will adhere firmly to the slightly rough surface which results. CAL METAL TREAT solution also changes the oxides and alkaline salts which may be present to an adherent phosphate coating which eliminates corrosion. The action of CAL METAL TREAT solution is controlled to assure attack only on the oxides and alkaline salts present, and a mild reaction with the metal surface to produce an etch which is microscopic. This controlled reaction reduces metal loss to the minimum amount necessary to allow the paint to be attached to the surface.