

# BIODEGRADABLE DESCALER

## D-SCALE 401

### TOUGH ON CONCRETE & MINERAL DEPOSITS

**D-SCALE 401 WAS DEVELOPED TO REMOVE CEMENT AND OTHER CALCIUM MATERIALS (LIME-SCALE, BARNACLES, MUSSELS) FROM PLACES WHERE THEY MAY CAUSE A PROBLEM.**

D-SCALE 401 is a hydrochloric acid solution that contains corrosion inhibitors, detergents, wetting agents and degreasing compounds. It is designed to penetrate encrusted scale, cement and barnacles and quickly remove them from the surface.

#### **D-SCALE 401...**

- *Removes cement & concrete from trucks, mixers, pumps, building forms and all sorts of construction equipment.*
- *Clean excess mortar from bricks, tile and concrete blocks.*
- *Removes barnacles from propellers, skegs, rudders, and hulls of sea going vessels.*
- *Removes barnacles and mussels from pipe, screens, pumps, and exchangers in power plants.*
- *Removes rust and stains from floors and process equipment.*
- *Reduces maintenance costs and improve appearance of equipment.*
- *Reduces operating costs by eliminating pressure drop and frictional drag.*
- *Is not harmful to most paints and metals including brass and copper when used as directed.*
- *Improves thermal efficiency by improving heat transfer coefficient.*

### METHODS OF APPLICATION

**CIRCULATION:** D-SCALE 401 can be effectively used by circulating through equipment to be cleaned. When possible, circulation should be up-flow. The cleaning will normally take between two to four hours. The equipment should be vented at all times since carbon dioxide gas evolves during the disassociation of calcium carbonate. Always flush with clean water after cleaning the system.

**SURFACE APPLICATION:** Brush, mop or spray D-SCALE 401 on the surface to be cleaned. Let stand to penetrate and break up deposits, then wipe or hose off promptly with clear water. D-SCALE 401 can be diluted with up to 4 parts water depending upon the application. Test a small surface for applicability before cleaning the whole surface.

**SOAKING:** Use a plastic container and allow parts to soak until calcium carbonate or other deposits have dissolved or softened sufficiently to be cleaned by wiping or brushing. The container can be covered but must be vented. Remove parts and rinse promptly with clear water. Any ferrous material cleaned should be protected from rusting by applying an appropriate rust preventative.

#### **CAUTION:**

- D-SCALE 401 is non-toxic, non-corrosive, non-flammable, and non-hazardous when used as directed.
- The materials in D-SCALE 401, when spent, are not listed as hazardous waste, nor does it possess any of the hazardous characteristics specified in 40 CRF-261.
- D-SCALE 401 meets all the requirements of the U.S. Department of Transportation regulations given in 173.240 (a) for shipment without hazardous warning.
- D-SCALE 401 is not recommended for use on aluminum alloys, zinc (not dipped galvanized sheet) and alloys of magnesium. It is recommended that test samples of materials in question be tested before application of D-SCALE 401.
- D-SCALE 401 could discolor automotive paint finish if used improperly.



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