



# D/2 Biological Solution

D/2 Biological Solution is a safe, easy to use liquid that removes a broad spectrum of biological deposits from hard environmental surfaces. A contact time of only 1 to 2 minutes will loosen most fungal and algal deposits with manual scrubbing and is typically sufficient for excellent results.

Growth of bacteria, fungi, algae, lichens, and mosses contributes significantly to the degradation of many types of construction materials, and can be disfiguring. D/2 can be utilized to control this problem on outdoor sculpture, monuments, decorative fountains, gravestones, and tombs. Biological growth found on some individual building features (such as parapets and zones of ground contact) or materials (such as stucco) can also be treated with D/2, although it is not a general purpose architectural cleaner.

## Features and Benefits

- **Fast Acting:** 1 to 2 minute contact time for great results.
- **Keeps Surfaces Clean for a Minimum of 1 year**
- **Safe for Landscape Plantings and Grass**
- **No Detrimental Effects on Masonry**
- **Non-Toxic and Biodegradable:** No special precautions required for handling and storage.

## Application Procedures

### No Scrub/No Rinse Method

1. Apply D/2 Biological Solution with a brush or pump sprayer to a dry surface. Do not pre-wet the surface. 2. Allow to dry. Repeat if there are heavy biological deposits. D/2 works with the elements and results occur within one week to one month depending on severity of growth and weather conditions. The surface will become cleaner over time as the subsurface biological growth dies and releases.

### Immediate Result Method

1. Apply D/2 Biological Solution with a brush, roller or pump sprayer to a dry surface. Do not pre-wet the surface. 2. After waiting 2-5 minutes, scrub surface with a non-metallic, short bristle scrub brush. 3. Allow the undiluted D/2 to remain on the surface 5-10 minutes longer. 4. Apply additional D/2 to maintain a wet surface and continue scrubbing. 5. Rinse with clean water.

Heavy biological deposits should first be loosened using a low pressure washer (300 to 600 psi), or by mechanical scraping using wood or plastic tools. Follow removal with one or more applications of D/2 as stated above. The surface will become cleaner over time as the subsurface biological growth dies and releases.

Light biological deposits may be removed with a D/2 dilution of water from 1:1 to 1:4 parts water by volume. Perform tests to determine effectiveness of various dilutions. Follow testing with application of D/2 as stated above.

## Safety Information

D/2 Biological Solution is non-mutagenic, and contains no carcinogenic compounds as defined by NTP, IARC, or OSHA. It is considered essentially non-toxic by swallowing, as it has an oral LD50 of greater than 5.0 g/kg of body weight. No special ventilation is required during use.

## Packaging and Coverage

D/2 Biological Solution is available in 32 ounce spray bottle, 1 gallon and 5 gallon containers, and 55 gallon drums.

The area that can be treated with one gallon of D/2 will vary considerably as a function of the nature and extent of biological deposits, as well as the physical characteristics of the surface.

Typical coverage to remove medium deposits will vary from 250 to 350 square feet per gallon.

## Technical Data

Physical Form . . . . . Transparent,  
low viscosity liquid  
Color . . . . . Almost colorless  
pH . . . . . 9.5  
Specific Gravity . . . . . 1.01g/cc  
Solubility in Water . . . . . Complete  
Vapor Pressure . . . . . 25 mm Hg @ 20°C

**Notice:** The information contained herein is based on our own research and the research of others, and it is provided solely as a service to help users. It is believed to be accurate to the best of our knowledge. However, no guarantee of its accuracy can be made, and it is not intended to serve as the basis for determining this product's suitability in any particular situation. For this reason, purchasers are responsible to make their own tests and assume all risks associated with using this product.

11/2008