

# LIQUID EPOXY COATING

## Devoe Bar-Rust 233H

### General Description:

Liquid Epoxy is a two-part, low VOC, chemically cured, semigloss coating that is applied as a liquid to the sandblasted surface of a valve and then allowed to cure at room temperature. The result is a durable coating with exceptional abrasion and chemical resistance ideally suited for valves in water and wastewater applications.

### Advantages of Epoxy:

1. The coating is applied in accordance with AWWA Standard C550 "Protective Interior Coatings for Valves and Hydrants" and certified to the requirements of ANSI/ NSF Standard 61 - "Drinking Water System Components - Health Effects" for coating valves and fittings.
2. Epoxy coatings are applied in a spray process in one or multiple-coats.
3. The spray process provides a smooth, even coating thickness with no runs, sags, or thin spots common when applying liquid paints.
4. Epoxy has a long-term performance history in water and sewage environments including salt water, slurries, methane and hydrogen sulfide exposure.

### Application Process:

1. The valve is cleaned and sandblasted, prior to coating.
2. Epoxy is applied in a semi-automated manufacturing process in accordance with the coating manufacturers' procedures and industry standards to assure consistency and high quality.
3. The epoxy is allowed to cure at room temperature.
4. The final surface is visually and electrically (when specified) tested to verify thickness and that it is holiday free.

### Typical Performance Characteristics:

- |                             |  |                    |
|-----------------------------|--|--------------------|
| 1. Color:                   | Black  |                    |
| 2. Thickness:               | 4-6 mils   | 1 Coat             |
| 3. Impact Resistance:       | 20 in-lb   | ASTM D2794         |
| 4. Moisture Permeability:   | .07  | ASTM E96           |
| 5. VOC:                     | 1.41 lbs/gal   | EPA 24             |
| 6. Service Temperature:     | 160° F. (250° F.)  | Wet (Dry)          |
| 7. Adhesion:                | Excellent  | ASTM D4541         |
| 8. Abrasion:                | Excellent  | ASTM D4060         |
| 9. Elongation:              | Excellent  | ASTM D522 Method B |
| 10. Water Immersion:        | Excellent  | ASTM D1308         |
| 11. Chemical Resistance to: | Alkalis, salts, oils, greases,<br>foodstuffs, 50% sodium hydroxide,<br>28% ammonia, 25% citric acid,<br>5% sodium chloride,<br>10% ammonium hydroxide, sewage. |                    |

Revised 4-15-05

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DATE 11-25-03

**VAL-MATIC**<sup>®</sup>

VALVE AND MANUFACTURING CORP.

DRWG. NO.

SS-1939