



**QUADEX**  
SEWER REHABILITATION PRODUCTS

## DESCRIPTION:

**Structure Guard** Epoxy is a 100% solids high build epoxy coating system. Structure Guard Epoxy is specifically engineered to provide long term protection for manholes, pump stations, treatment plants, and RCP trunk lines, which are subjected to extremely high levels of hydrogen sulfide induced corrosion.

## FEATURES AND BENEFITS:

- 100% Solids, No VOC's
- Can be sprayed applied at 150 mils in a single pass
- Superior bonding on concrete substrates

## TYPICAL PERFORMANCE DATA:

- |                                  |  |
|----------------------------------|--|
| • Tensile Strength ASTM D638     | 5,600 psi                                  |
| • Flexural Strength ASTM D790    | 11,000 psi                                 |
| • Compressive Strength ASTM D695 | 15,000 psi                                 |
| • Shore D Hardness ASTM D2240    | 83   |
| • Elongation                     | 4.8%                                       |
| • Taber Abrasion ASTM4060        | 1000 gm load @ 1000 cycles<br>< 100mg loss |

## APPLICATION SYSTEMS

- Heated Plural Component Spray Units
- Minimum Output 3600 psi
- Product Hose: Optimum I.D. 0.375
- Max. Length 100 feet

## CURE TIME (at 70°F or 21°C)

- Re-coat Window 1 hour
- Light Loading 1 day
- Immersion (Aqueous) Service 24 hours
- Full or Chemical Service 5 days

## POT LIFE

- 40°F (4°C) 1 hour
- 75°F (24°C) 35 minutes
- 92°F (33°C) 20 minutes

# Structure Guard

*Corrosion Resistant Protective Coating*

## CHEMICAL RESISTANCE

- |                               |                               |
|-------------------------------|-------------------------------|
| • Acetic Acid 10%             | • Ammonium Hydroxide 25%      |
| • Brine Water                 | • Copper Sulfate              |
| • Diesel Fuel                 | • Fatty Acids                 |
| • Gasoline                    | • Hydrochloric Acid up to 20% |
| • Mineral Spirits             | • Potassium Hydroxide 50%     |
| • Crude Oil                   | • Caster Oil                  |
| • Ethylene Glycol             | • Sodium Chloride             |
| • Sodium Hydroxide 50%        | • Sulfuric Acid 75%           |
| • Sewage (Hydrogen Sulfide)   | • Alkalis                     |
| • Fresh and non-potable water | • Wine                        |
| • Ethanol                     |                               |

## MULTIPLE COATS

Second and subsequent coats must be applied before the previous coat has completely cross-linked. If additional coats are needed after re-coat window, brush blast before applying the next coat. Small areas may be abraded by sanding or wire brushing.

The same requirement applies when overlapping the seams of adjacent coating sections to create a continuous protective film. If the coating surface to be overlapped at the seam cannot be brush blasted, use a non-impact means as power brushing or sanding to create a mechanical profile.

## PACKAGING:

**Structure Guard** is available in both 5 gallon pails and 55 gallon drums.

## YIELD:

**Structure Guard** will yield an approximate coverage of 12.8sq. ft per gallon @125 mils thickness.

## WARRANTY:

**Quadex** warrants its products to be free of defects in material and workmanship. **Quadex** will replace any product proved to be defective when applied in accordance with manufacturer's instructions. **Quadex's** obligation shall be limited solely to such replacement. There are no other warranties by **Quadex** expressed or implied.