



STUART

PRODUCT DATA

AQUATAPOXY™ STANDARD GEL

1. **SCOPE:** This specification covers a two-part, ambient temperature curing epoxy system for bonding and sealing on wet, submerged or dry surfaces. The material shall be AQUATAPOXY Gel as supplied by: Stuart Steel Protection Corp., S. Bound Brook, NJ 08880, (908) 469-5544, or approved equal.
2. **FORM:** The material shall contain an epoxy resin and fatty diamine curing agent as the base ingredients, and shall be supplied as two components, an epoxy resin as Part 'A' and a fatty diamine curing agent as Part 'B'. Modifiers and fillers may be included in either component.
 - 2.1 **Solids Content:** Material shall contain no hydrocarbon solvents and be 100% solids.
 - 2.2 **Flash Point:** Material shall have a flash point no lower than 280°F.
 - 2.3 **Air Pollution:** Material must meet all air pollution control regulations, including Los Angeles APCD Rule 66, and San Francisco APCD Regulation 3.
3. **REQUIREMENTS:**
 - 3.1 **General:** The product shall be uniform in quality and condition and free from foreign materials detrimental to satisfactory performance.
 - 3.2 **Mix Ratio:** Mix ratio of product must be one volume of Part 'A' epoxy resin, to one volume of Part 'B' curing agent compound.
 - 3.3 **Consistency:** Product must have a consistency of such that uncured material will exhibit no flow, sag, or run when tested at a film thickness of 0.100 inch, and film width of 1.0 inch, according to Federal Specification TT-E-508a. Material must be capable of being pumped through automatic metering and mixing equipment on a continuous flow basis. It must be capable of being applied underwater directly to properly applied surfaces.
 - 3.4 **Surface Preparation:** Surfaces shall be abrasive blasted to Steel Structures Painting Council, SP-10, for maximum service life. Lesser degrees of cleanliness are likely to result in reduced service life and possible disbondment.

- 3.5 Curing: Material must cure to a tough, non-sticking state within 24 hours, at 77°F. Curing of material must not be hampered or adversely affected in any way by the presence of water or dampness.
- 3.6 Toxicity & Pollution: Material must be insoluble and must not exhibit any clouding or dissolution when, immersed in or worked, underwater. If material is to be used in potable water structures, material must conform to EPA test for "Determining the Water Extractable Substance from a Polymeric or Resinous Water Contact Surface", dated December 1970. EPA and USDA acceptance letters shall be submitted by the manufacturer.
- 3.7 Pot Life: Once mixed, the product shall have a useful pot life of not less than 40 minutes when maintained at temperatures not exceeding 77°F.
- 3.8 Shelf Life: When stored at temperatures between 40°F. to 100° F., the unmixed product shall have a shelf life of not less than 12 months.
- 3.9 Application: Mixing and application shall be in strict conformance with the manufacturers label directions. Application shall be by trowel, squeegee or gloved hand.
- 3.10 Physical Properties: The manufacturer shall submit independent laboratory tests verifying the following minimum physical properties of the material:

3.10.1 Gel

Hardness:	68-70 Shore D
Impact Flexibility:	120 inch pounds
Elcometer Adhesion:	600 p.s.i.
Water Absorption:	< 0.6%

4. PACKAGING: The product shall be supplied in kit form with each component packaged separately. Each container shall show the vendor's name, product identification, shelf life, net quantity and application instructions.