

Evaluation Table

Product ID:	XXXXX
Manufacturer:	Name of Manufacturer
Product Name:	Name of Product

1002 Paints for Structural Steel and Other Metallic Surfaces

1002 Solvent Based Paint for Structural Steel and Other Metallic Surfaces (Inorganic Zinc-Rich Primer)

ADOT Standard Specification: 1002

Responsible Section: Materials Group

Material Property	Specification/ Test Method	Requirement	Results	Pass/ Fail
Mixing	1002-1	All paints specified herein shall be ready-mixed at the manufacturer's plant.		
Product Data Sheet	1002-1	All paints shall be standard paint products of the manufacturer with published product data sheets.		
Specified Use	1002-1	Ready-mixed paint shall be homogeneous, free of contaminants, and shall be of a consistency suitable for the use for which it is specified.		
Pigment	1002-1	The pigment shall be finely ground and properly dispersed in the vehicle, according to the requirements for the type of paint, and this dispersion shall be such that the pigment does not settle appreciably, does not cake or thicken in the paint container, and does not become granular, jelled, or curdled.		
Settlement	1002-1	Any settlement of pigment in the paint shall be easily dispersed with a paddle so as to produce a smooth uniform paint of the proper consistency.		
Additives	1002-1	The manufacturer shall include in the paint the necessary additives for control of sagging, leveling, drying, drier absorption, and skinning.		
Compounds	1002-1	Lead, lead compounds, soluble barium compounds, or hexavalent chromium compounds shall not be used as raw materials in the paint formulas.		
Halogenated Solvents	1002-1	The use of halogenated solvents is not permitted.		

Material Property	Specification/ Test Method	Requirement	Results	Pass/ Fail
Containers	1002-1	Paint shall be furnished in new, unopened air-tight containers, which are clearly labeled with the exact title of the paint, Federal Specification number when applicable, name and address of the manufacturer, product code, date of paint manufacture, and the lot or batch number.		
Containers	1002-1	The containers shall meet U.S. Department of Transportation Hazardous Materials Shipping Regulations.		
Labeling	1002-1	Precautions concerning the handling and the application of the paint shall be shown on the label of the paint containers.		
Paint Systems	1002-1	All of the paints of any coating system consisting of individual paints (such as a primer, intermediate coat, and topcoat), shall be made by the same manufacturer, and shall be designed and sold to be used together as a system.		
Inorganic Zinc-Rich Primer: General	1002-2.03	Inorganic zinc-rich primer shall be a solvent-based three-component, inorganic, ethyl silicate, zinc-rich coating for use on steel surfaces which will be exposed to severely corrosive environments.		
Inorganic Zinc-Rich Primer: General	1002-2.03	Inorganic zinc-rich primer shall be made to contain no less than 80 percent by weight of zinc dust in the dried film, and shall be certified by the manufacturer to form a strong bond to properly cleaned and prepared steel surfaces, either sandblasted or galvanized.		
Inorganic Zinc-Rich Primer: General	1002-2.03	This primer shall also be certified by the manufacturer to be compatible with any suitable water-based acrylic finish paint.		

Material Property	Specification/ Test Method	Requirement	Results	Pass/ Fail
Accelerated Weathering	1002-3(B) ASTM G154 ASTM D4587	Coating systems composed of the paints specified in Subsections 1002-2.01 through 1002-2.05 of the specifications will be tested as complete systems applied to steel panels and weathered in accordance with ASTM G154, and exposure cycle number 4 of ASTM D4587. (see below)		
Cracking	1002-3(B) ASTM D661	Report Only, if available (not currently included in ASTM D4587)		
Flaking (Scaling)	1002-3(B) ASTM D4587 ASTM D772	Report Only		
Blistering	1002-3(B) ASTM D4587 ASTM D714	Report Only		
Corrosion	1002-3(B) ASTM D4587 ASTM D610	Report Only		
Chalking	1002-3(B) ASTM D4587 ASTM D4214	Report Only		
Erosion	1002-3(B) ASTM D4587 ASTM D662	Report Only		
Adhesion	1002-3(B) ASTM D4587 ASTM D3359 Test Method B	Report Only		
Flexibility	1002-3(B) ASTM D522	Report Only, if available (not currently included in ASTM D4587)		