

TT-F-1536A  
July 8, 1975  
SUPERSEDING  
Int. Fed. Spec. TT-P-001536 (GSA-FSS)  
October 7, 1968

FEDERAL SPECIFICATION

PLUMBING FIXTURE SETTING

COMPOUND

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers materials that combine watertight, gastight, odorproof, and verminproof properties for plumbing fixtures which are connected to drainage systems.

1.2 Classification. The compound covered by this specification shall be of the following types, as specified (see 6.2):

- Type I - Nonpreformed (bulk).
- Type II - Preformed (molded in a ring).

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

Federal Specifications:

- PPP-B-566 - Boxes, Folding, Paperboard.
- PPP-B-636 - Boxes, Shipping, Fiberboard.
- PPP-B-665 - Boxes, Paperboard, Metal Edged and Components
- PPP-B-676 - Boxes; Setup.
- PPP-C-96 - Cans, Metal, 28 Gage and Lighter.

Federal Standards:

Federal Standard No. 123 - Marking for Shipment (Civil Agencies).  
Federal Test Method Standard No. 141 - Paint, Varnish, Lacquer and Related Materials; Methods of Inspection, Sampling and Testing.

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.)

(Single copies of this specification and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Washington, DC, Atlanta, Chicago, Kansas City, MO, Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, WA.)

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

Military Specification:

MIL-B-117 - Bag and Sleeve, Interior Packaging.

Military Standards:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

MIL-STD-120 - Marking for Shipment and Storage.

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(Copies of Military Specifications and Standards required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

Regulations under the Federal Hazardous Substances Labeling Act.

(Applications for copies should be addressed to the Division of Public Information, Food and Drug Administration, Washington, DC 20250.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

American Society for Testing and Materials (ASTM) Standards:

D-2203 - Staining of Oil and Resin-Base Caulking Compounds.

(Applications for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

National Motor Freight Traffic Association, Inc., Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking Associations, Inc., Tariff Order Section, 1616 P Street, N.W., Washington, DC 20036.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Boom 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

### 3. REQUIREMENTS

3.1 Materials. The Type I compound shall contain calcium carbonate, asbestos fiber, bodied vegetable oils and hydrocarbon plasticizers. The Type II compound shall contain primarily waxes extended with liquid hydrocarbon fluids. Both types shall be nonvolatile and nonasphaltic and shall contain a germicide in a quantity sufficient to prevent the compound from supporting bacterial life.

3.2 Stability. The compound in the original unopened container shall be stable for at least 12 months when stored at a temperature not exceeding 80 deg. F.

3.3 Physical properties. When applied on tile or concrete surfaces, the compound shall not rot, harden, shrink, or dry and shall be gasproof, fumeproof, and watertight.

3.3.1 Stain change. The compound shall cause no visible stain on the surface of wood, concrete, or tile when tested as prescribed in 4.3.1.

3.3.2 Temperature effect.

3.3.2.1 At 32 deg. F. The compound shall show no evidence of cracking or breaking when tested in accordance with 4.3.2.

3.3.2.2 At 180 deg. F. The compound shall remain plastic, smooth, and homogenous when tested in accordance with 4.3.3.

3.3.3 Leakage. The compound shall show no leakage within 72 hours when tested in accordance with 4.3.4.

3.3.4 Condition in container. The Type I compound shall be a smooth, homogenous mixture and shall show no evidence of lumping, putrefaction, nor livering when tested in accordance with 4.3.5.

### 3.4 Workmanship.

3.4.1 Type I. The compound shall spread easily when applied to vitreous or metal surfaces and shall be capable of being rolled into a ring.

3.4.2 Type II. The compound shall be a smooth homogenous mixture preformed into a ring of suitable diameter and cross section to insure the proper setting of the plumbing fixture.

3.5 All deliveries shall conform in every respect to the provisions of the Federal Hazardous Substances Labeling Act.

## 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.2 Sampling and inspection. Sampling and inspection shall be in accordance with Methods 1011, 1021, or 1031 of Fed. Test Method Std. No. 1141.

4.2.1 Inspection of preparation for delivery. An inspection shall be made to determine that the packaging, packing, and marking comply with the requirements in section 5 of this specification. Defects shall be scored in accordance with table I. For examination of interior packaging the sample unit shall be one shipping container fully prepared for delivery, selected at random just prior to the closing operations. Sampling shall be in accordance with MIL-STD-105. Defects of closure listed shall be examined on shipping containers fully prepared for delivery. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 and an acceptable quality level (AQL) of 4.0 defect per hundred units.

TABLE I. Classification of preparation for delivery defects.

Examine	Defects
Markings (exterior and interior)	Omitted; incorrect; illegible; improper size, location, sequence, or method of application.
Materials Workmanship	Any contents missing or damaged. Inadequate application of components such as incomplete closure of container, distortion of container, or loose strapping, when applicable.
Contents (exterior and interior container)	Quantity per container is more/less than required. Net weight exceeds requirements.

### 4.3 Test Procedures:

4.3.1 Staining. The test shall be performed in accordance with ASTM Standard D-2203.

4.3.2 Behavior at 32 deg. F. Test pieces 1/2 inch in diameter and 3 inches long shall be exposed to a temperature of 32 deg. F for 1 hour, then bent quickly over a mandrel 1 inch in diameter through an arc of 180 deg. without cracking or breaking.

4.3.3 Behavior at 180 deg. F. Test pieces shall be exposed for 1 hour in a well ventilated room, then in an oven at 180 deg. F. for 5 minutes, then in the room for 1 hour, and then examined for plasticity, smoothness, and homogeneity.

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4.3.4 Behavior in water. A piece of 14-mesh wire cloth bent to form a basin not less than 6 inches deep, shall be thoroughly coated with the compound to a thickness not exceeding 1/16 inch. The basin shall be filed with water and observed for 72 hours.

4.3.5 Condition in container. Tests shall be conducted in accordance with method 3022 of Fed. Test. Method Std. No. 141.

## 5. PREPARATION FOR DELIVERY.

5.1 Packaging. Packaging shall be level A, B, or C, as specified (see 6.2).

### 5.1.1 Level A.

5.1.1.1 Type I compound. The type I compound shall be packaged in 1 pound quantities in cans conforming to type V, class 1 or 2 of PPP-C-96.

5.1.1.2 Type II compound. The type II compound shall be individually packaged in sealed bags conforming to MIL-B-117, type II, class C.

### 5.1.2 Level B.

5.1.2.1 Type I compound. The type I compound shall be packaged in accordance with paragraph 5.1.1.1, except that the side seam stripping is not required and exterior coatings plan may be A or B.

5.1.2.2 Type II compound. The type II compound shall be packaged in accordance with paragraph 5.1.1.2.

5.1.3 Level C. The type I or II compound shall be packaged in accordance with suppliers standard practice.

5.2 Intermediate packaging (applicable to type II compound only). Intermediate packages shall be level A, B, or C, as specified

5.2.1 Level A. The sealed bags of type II compound shall be individually packed in boxes conforming to PPP-B-566, PPP-B-665, or PPP-B-676.

5.2.2 Level B. The sealed bars of type II compound shall be packaged in accordance with paragraph 5.2.1.

5.2.3 Level C. The unit packages of the type II compound shall be packaged in accordance with the suppliers standard practice.

5.3 Packing. Packing shall be level A, B, or C, as specified (see 6.2).

### 5.3.1 Level A.

5.3.1.1 Type I compound. Twelve of the filled cans of the type I compound shall be packed in a close fitting box conforming to PPP-B-636, class weather-resistant. Close and seal the box in accordance with the appendix to box specification.

5.3.1.2 Type II compound. Four intermediate containers shall be packed in a close-fitting box conforming to PPP-B-636, class weather-resistant. Close and seal the box in accordance with the appendix to the box specification.

### 5.3.2 Level B.

5.3.2.1 Type I compound. The filled cans of type I compound shall be

packed in accordance with paragraph 5.3.1.1, except that the boxes shall conform to PPP-B-636, class domestic and the closure of the boxes shall be in accordance with method II of PPP-B-636.

5.3.2.2 Type II compound. The filled intermediate boxes of compound shall be packed in accordance with paragraph 5.3.1.2, except that the boxes shall conform to PPP-B-636, class domestic and the closure of the boxes shall be in accordance with method II of PPP-B-636.



5.3.3 Level C. The type I or II compound shall be packed to insure carrier acceptance and safe delivery to destination at the lowest rates complying with the Uniform Freight Classification Rules or the National Motor Freight Classification Rules.

#### 5.4 Marking.

5.4.1 Civil agencies. In addition to any special marking specified by the contract or order, the interior packages and shipping containers shall be marked in accordance with Fed. Std. No. 123.

5.4.2 Military agencies. In addition to any special marking required by the contract or order, the interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

#### 6. NOTES

6.1 Intended use. This compound covered by this specification is intended for forming a watertight, gastight, odor proof, and verminproof seal for plumbing fixtures requiring gasket connections to the drainage system.

6.1.1 A compound shall not be used on any job if the date of manufacture indicates that the compound is more than 12 months old.

6.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents:

- (a) Title, number, and date of this specification.
- (b) Type required (see 1.2).
- (c) Applicable levels of packaging and packing required (see 5.1, 5.2, and 5.3)
- (d) Whether civil or military marking is required (See 5.4).

Preparing Activity:

GSA-FSS

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See Section 2 of this specification to obtain extra copies and other documents referenced herein. Price 30 cents each.