

TT-P-00791B(GSA-FSS)
 October 16, 1969
 INTERIM REVISION OF
 Fed. Spec. TT-P-791a
 June 25, 1938

INTERIM FEDERAL SPECIFICATION

PUTTY: LINSEED-OIL TYPE,
 (FOR WOOD-SASH-GLAZING)

This Interim Federal Specification was developed by the Federal Supply Service, General Services Administration, Washington, D. C. 20406, based upon currently available technical information. It is recommended that Federal agencies use it in procurement and forward recommendations, for changes to the preparing activity at the address shown above.

The General Services Administration has authorized Federal agencies to use this Interim Federal Specification as a valid exception to Federal Specification TT-P-791a, dated June 25, 1938.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers the properties of a linseed-oil type of putty intended primarily for use as a glazing material for wood sash.

1.2 Classification. The putty shall be of two types, as specified (see 6.2).

Type I. Whiting (calcium carbonate) putty.
 Type II. White lead-whiting putty.

2. APPLICABLE DOCUMENTS

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

Federal Specification:

TT-L-190 - Linseed Oil, Boiled, (For Use in Organic Coatings).
 TT-L-201 - Linseed Oil, Heat Polymerized.
 TT-L-215 - Linseed Oil, Raw, (For Use in Organic Coatings).
 TT-F-102 - Paint, Oil: Titanium - Lead-Zinc and Oil, Exterior,
 Ready-Mixed, White and Light Tints.
 TT-W-251 - White Lead, Basic-Carbonate, Dry, Paste in Oil and
 Semipaste containing Volatile Thinner.
 PPP-C-96 - Cans Metal, 28 Gage and Lighter.
 PPP-P-704 - Pails, Metal (Shipping, Steel 1 through 12 Gallon).

Federal Standards:

Fed. Std. No. 123 - Marking for Domestic Shipment (Civilian Agencies).
 Fed. Test Method Std. No. 141 - Paint, Varnish, Lacquer and Related
 Materials; Methods of Inspection, Sampling, and Testing.

(Activities outside the Federal Government may obtain copies of Federal Specification, 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, D. C. 20402.

(Single copies of this specification and other product specifications required by activities outside the Federal Government for bidding purposes are available without charge at the General Services Administration Regional Offices in Boston, New York, Washington, D. C., Atlanta, Chicago, Kansas City, Mo., Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, Wash.

(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.)

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Military Standards:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
 MIL-STD-129 - Marking for Shipment and Storage.

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

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:

Uniform Classification Committee:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, 202 Union Station, 516 West Jackson Boulevard, Chicago, Illinois 60606.)

National Classification Board:

National Motor Freight Classification.

(Application for copies should be addressed to the National Classification Board, 1616 F Street, N.W., Washington, D. C. 20036.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among groups and using Federal agencies.)

3. REQUIREMENT

3.1 Materials. The putty shall be composed of pigments mixed with linseed oil and suitable driers, as required.

3.1.1 Pigment. The dry pigments shall consist of calcium carbonate or basic white lead carbonate conforming to Type B of TT-W-251. The pigment of the Type II Putty shall contain not less than 10% white lead.

3.1.2 Vehicle. The type of linseed oil shall be either the raw, conforming to TT-L-215; the boiled, conforming to TT-L-190; or the polymerized, conforming to Type II of TT-L-201. The vehicle shall contain not less than 90% linseed oil by weight.

3.2 The finished putty shall comply with the requirements, as specified in Table I when tested, as specified in 4.3.

TABLE I. Finished putty requirements

Requirement	Type I Whiting Putty		Type II White Lead-Whiting	
	Minimum	Maximum	Minimum	Maximum
Pigment (% by weight)		88		89
Vehicle	12		11	
Coarse Particle (% of weight)		5		5
Iodine number of fatty acid	168		168	
Penetration (tenths of a mm.)	range 170-190		range 170-190	

3.2.1 Drying time. The putty shall not cause any wrinkling of the paint nor cause any lifting of the surface of the putty when tested in accordance with 4.3.2.

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3.3 Workmanship. The putty shall be free of lumps and of a homogenous consistency. After working in the hands it shall have a good plastic quality without sliminess nor stickiness that would render it difficult to handle. It shall be capable of being applied and finished smoothly with a knife and shall show no tendency to crumble nor crack, nor lift away from the surface of the glass or wood sash that has been primed.

3.4 Storage stability. The product when stored between 40° and 100°F. in the unopened containers inverted approximately every month, shall be capable of meeting the requirements of this specification for at least six months after date of manufacture.

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 specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to 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 the prescribed requirements.

4.2 Sampling and inspection shall be in accordance with methods 1011, 1021, or 1031 of Fed. Test Method Std. No. 141, as applicable.

4.2.1 Inspection of preparation for delivery. An inspection shall be made to determine that the preservation, packaging, packing, and marking comply with the requirements in section 5 of this specification. Defects shall be scored in accordance with Table II. 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 with an AQL of 4.0 defects per hundred units.

TABLE II. Classification of preparation for delivery defects.

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

4.3 Test procedures.

4.3.1 The material shall be tested in accordance with the following applicable methods of Fed. Test Method Std. No. 141:

4.3.1.1 Pigment. The pigment content shall be determined in accordance with method 4021.

4.3.1.2 Vehicle. The vehicle content shall be determined in accordance with method 4031.

4.3.1.3 Coarse particles. The coarse particles shall be determined in accordance with method 4091.

4.3.1.4 Iodine number. The iodine number of the fatty acid shall be determined in accordance with method 5061. The procedure for the preparation of the fatty acid of the material shall be in accordance with method 5051.

4.3.1.5 Penetration. The consistency of the material shall be determined in accordance with method 4273.

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4.3.2 Drying time. Apply the putty to a 90 degree, 5 X 5/8 inch metal angle and allow to cure for 48 hours at $72^{\circ} \pm 3^{\circ}\text{F}$. and $50 \pm 5\%$ relative humidity. Apply a coat of paint conforming to TT-P-102 over the putty. Observe the paint film after 24 hours at the above temperature and humidity.

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. The putty, furnished in one-half-pint, one-pint, one-quart, and one-gallon quantities, as specified (see 6.2), shall be packaged in a metal can conforming to PPF-C-96, type V, class 2. The exterior non-metallic coating shall conform to Plan B of the can specification. Five-gallon quantities, as specified (see 6.2), shall be packaged in a pail conforming to PPF-P-704, type II, class 2. The filled pails shall be packaged in accordance with the appendix to the pail specification.

5.1.2 Level B. The putty furnished in one-half-pint, one-pint, one-quart and one-gallon quantities, as specified (see 6.2), shall be packaged in a metal can conforming to PPF-C-96, type V, class 2. The exterior non-metallic coating shall conform to Plan A of the can specification. The filled cans shall be packaged in accordance with the appendix to the can specification. Five-gallon quantities, as specified (see 6.2), shall be packaged in a pail conforming to PPF-P-704, type II, class 2. The exterior coating shall be as specified in PPF-P-704, except the color is optional. The filled pails shall be closed, packed, and marked as specified in the appendix to the pail specification.

5.1.3 Level C. The putty shall be packaged in accordance with the manufacturer's commercial practice, and shall be furnished in quantities of 1/2 pint, 1 pint, 1 quart, or 1 gallon in containers of the type normally used for the product.

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

5.2.1 Level A. The filled cans of putty, in quantities of one gallon or less, packaged as specified in 5.1, shall be packed in conformance with level A of PPF-C-96. Five gallons of putty, packaged as specified in 5.1, shall be packed in accordance with the level A requirement of the appendix to PPF-P-704.

5.2.2 Level B. The filled cans of putty in quantities of one gallon or less, packaged as specified in 5.1, shall be packed in conformance with level B of PPF-C-96. Five gallons of putty packaged as specified in 5.1 shall not require additional packing.

5.2.3 Level C. The putty shall be packed in a manner which will insure arrival at destination in a satisfactory condition and which will be acceptable to the carrier at the lowest rates. Containers and packing shall comply with the Uniform Freight Classification or National Motor Freight Classification.

5.3 Marking.

5.3.1 Civil agencies. In addition to markings required by the contract or order, cans, pails, and shipping containers shall be marked in accordance with Fed. Std. No. 123 and shall include date of manufacture by month and year.

5.3.2 Military agencies. In addition to the markings required by the contract or order, the cans, pails, and the shipping containers shall be marked in accordance with MIL-STD-129.

5.3.3 Special marking. The following special marking shall be placed on all cans, pails, and shipping containers:

WARNING: DO NOT STORE ABOVE 100°F . AND DO NOT APPLY BELOW 40°F .

6. NOTES

6.1 Intended use.

6.1.1 The putty covered by this specification is intended for general use on wood sash glazing. While the two types may be used interchangeably, it is recommended that Type II be used for filling holes and cracks and where a harder material is desirable.

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

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- (a) Title, number, and date of this specification.
- (b) Type of product required (see 1.2).
- (c) Selection of applicable levels of packaging and packing required.
(see 5.1 and 5.2).
- (d) Quantity of product required (see 5.1.1 and 5.1.2).

6.3 New wood sashes should be primed with either one coat of a volatile thinner semi-paste conforming to TT-W-251, a thin coat of titanium zinc paint conforming to TT-P-103, one coat exterior wood primer conforming to TT-P-25, or one coat of boiled linseed oil.

6.4 The surfaces should be dry and cleaned with a cloth saturated with turpentine or mineral spirits before applying the putty.

GENERAL SERVICES ADMINISTRATION - FEDERAL SUPPLY SERVICE SPECIFICATION COMMENT SHEET	BUDGET BUREAU NO. 29-R0175
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INSTRUCTIONS

This form provides a way for users of this specification to inform the originator of problems encountered in its use. It is not to be used to request changes to accommodate proprietary features. All comments will be considered and appreciated, but please do not expect a reply. To comment: detach, complete, fold, staple, and mail.

NOTE: Comments on this form do not constitute or imply authorization to waive any part of the document or serve to amend contractual requirements.

1. SPECIFICATION

TT-P-00791B(GSA-FSS) Putty: Linseed-Oil Type, (For Wood-Sash-Glazing)

2. CONTRACT NO. (If any)

3. QUANTITY ON CONTRACT (Optional)

4. DOLLAR VALUE (Optional)

5. GENERAL NATURE OF PROBLEM (e.g., inspection difficulties, manufacturers unable to meet tolerances, containers collapse under normal warehousing conditions, etc.)

6. SPECIFIC REQUIREMENTS AFFECTED (Include paragraph number and lines of wording)

7. SPECIFIC PROBLEMS (e.g. tests in 4.2.2 will not assure that the battery will last required time; temperature ranges in table 2 do not conform to commercially available items.)

8. RECOMMENDATIONS

9. NAME OF MANUFACTURER, ASSOCIATION, GOVT., AGENCY, ETC.	10. ADDRESS (Number, Street, City, State and Zip Code)
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11. NAME AND TITLE OF SUBMITTER

12. DATE

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General Services Administration
Federal Supply Service (FMSB)
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