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1-GP-56
CANCELLATION
23 November 1956

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

PRIMING PAINT; INTERIOR, FOR WOOD

CGSB Specification 1-GP-56, dated 31 December 1947, is cancelled as of 23 November 1956 and superseded by 1-GP-38a: Undercoater; Enamel, Interior, dated 6 July 1956.

1-GP-56
31 December 1947
AMENDMENT No. 1
30 June 1952

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

PRIMING PAINT; INTERIOR FOR WOOD

4. CONSISTENCY

Change this requirement to read as follows:

"The consistency of the paint shall be not less than 70 Krebs Units and not more than 90 Krebs Units, as determined with the Stormer Viscosimeter.

Method 4.5"

REFERENCE COPY

No. 1-GP-56-1947.

Issued 31 December, 1947.

Supersedes Issue 15 February, 1941.

CANADIAN GOVERNMENT PURCHASING STANDARDS COMMITTEE

Specification for
PRIMING PAINT, INTERIOR FOR WOOD

1. Definition

This specification applies to ready-mixed paint suitable for use as a primer on interior woodwork*.

2. General

The paint shall consist of a suitable pigment mixture adequately milled with treated drying oils or varnish, or a mixture thereof, together with the necessary thinners. It shall be of brushing consistency and have good spreading and levelling properties. It shall not have any disagreeable odour during or after application.

A limited proportion of lead pigments may be incorporated for tinting purposes only (see Clause 11 below, Lead Content of Pigment.)

3. Colour

The paint shall be white in colour unless otherwise required by the purchaser. For other suitable colours reference may be made to the lighter colours described in Schedule No. 1-GP-12. Method 12.1

4. Consistency

The consistency of the paint shall be not less than 10 nor more than 50 seconds at 25°C. (77°F.), as determined by the Gardner mobilometer. Method 4.4

5. Hiding Power

The paint shall hide a contrasting surface entirely when applied at a coverage of 400 square feet per gallon. Method 14.1

*See also specification No. 1-GP-38, Enamel Undercoating, Interior White and Grey; No. 1-GP-42, Paint for Priming Plaster and Concrete Surfaces; No. 1-GP-68, Paint for Sealing Wallboard; No. 1-GP-83, Sealer for Wood; No. 1-GP-84, Priming Paint for Wood, Quick Drying.

No. 1-GP-56.

6. Flash Point

The Pensky-Martens closed cup flash point of the paint shall be not lower than 38°C.(100°F.) Method 3.1

7. Drying Time

The paint shall dry satisfactorily in not more than 16 hours. Method 5.1

8. Coarse Particles

The paint shall not contain more than 2.0 per cent of material retained on a 44 micron sieve. Method 15.1

9. Volatile Portion

The content of volatile matter shall not exceed 20 per cent of the paint. Method 17.1

10. Water

The content of water shall not exceed 1 per cent of the paint. Method 24.1

11. Lead Content of Pigment

The extracted pigment shall not contain more than 2.0 per cent of lead (Pb). Method 50.6

12. Flexibility

The paint shall not crack or peel when subjected to the flexibility test using a $\frac{1}{4}$ " mandrel. Method 119.2

13. Methods of Sampling and Testing

(a) Sampling shall be carried out in accordance with section 1.4 of Schedule No. 1-GP-71: Methods of Testing Paints and Pigments.

(b) The Methods of testing shall in all cases be those specified in the same schedule, using the sections indicated by the numbers following each requirement.

Correspondence regarding this specification should be addressed to the Secretary, Canadian Government Purchasing Standards Committee, National Research Council, OTTAWA, Canada

REFERENCE COPY

Amendment Sheet No. 1
Issued 3 July, 1944.

No. 1-GP-56-1941
Issued 15 February, 1941.

CANADIAN GOVERNMENT PURCHASING STANDARDS COMMITTEE

Specification for Interior Priming Paint for Wood

Flexibility

Replace the present wording of Clause 10 and Appendix G, with the following:

Clause 10. The dried varnish film shall not peel or crack sufficiently to expose any part of the metal surface when subjected to the bending test at 25°C. (77°F.), using a 1/4" diameter mandrel.

Appendix G.

A sheet of tinplate approximately 0.3 mm. thick is roughened by rubbing with No. 0 emery paper. The paint is then applied to give a dried film 25 to 35 microns thick. It is allowed to dry for 24 hours at room temperature and is then baked for one hour at 100°C. The panel is maintained at a temperature of 25 ± 2°C. and it is then bent rapidly through 180° over the specified mandrel, the paint surface being outermost.

Flash Point.

Replace the present wording of Appendix D, with the following:

The flash point shall be determined by means of the Pensky-Martens closed cup in accordance with A.S.T.M. Procedure D93-42.

TENTATIVE

No. 1-GP-56-1941.

Issued 15 February, 1941.
Amended 3 July, 1944.

CANADIAN GOVERNMENT PURCHASING STANDARDS COMMITTEE

Specification for
Interior Priming Paint for Wood

1. Definition

This specification applies to ready-mixed paint suitable for use as a primer on interior woodwork.¹

2. General

The paint shall consist of a suitable pigment mixture adequately milled with treated drying oils or varnish, or a mixture thereof, together with the necessary thinners. It shall be of brushing consistency and have good spreading and levelling properties. It shall not have any disagreeable odour during or after application.

The paint shall be white in colour unless otherwise required by the purchaser. For other suitable colours reference may be made to the lighter colours described in Schedule No. 1-GP-12. A limited proportion of lead pigments may be incorporated for tinting purposes only (see Clause 9 below, Lead Content of Pigment).

3. Consistency

The consistency of the paint shall not be less than 10 nor more than 50 seconds at 25°C. (77°F.), as determined by the Gardner mobilometer.

4. Hiding Power

The paint shall hide a contrasting surface entirely when applied at a coverage of 400 square feet per gallon.

¹ See also Specifications No. 1-GP-38, Enamel Undercoating, Interior, White and Grey; and No. 1-GP-42, Paint for Priming Plaster and Concrete Surfaces.

2.

No. 1-GP-56.

5. Flash Point

The flash point of the paint shall not be lower than 38°C. (100°F.) closed cup test.

6. Drying Time

The paint shall dry satisfactorily in not more than 16 hours.

7. Coarse Particles and Skins

The paint shall not contain more than 2.0 per cent of material retained on a 44 micron sieve.

8. Volatile Portion

The content of volatile matter shall not exceed 20 per cent of the paint. The content of water shall not exceed 1.0 per cent of the paint.

9. Lead Content of Pigment

The extracted pigment shall not contain more than 2.0 per cent of lead (Pb).

10. Flexibility

The dried varnish film shall not peel or crack sufficiently to expose any part of the metal surface when subjected to the bending test at 25°C. (77°F.), using a $\frac{1}{4}$ " diameter mandrel.

NOTE 1: For testing procedures see Schedule No. 1-GP-71: Methods of testing Paint and Pigments.

NOTE 2: For testing Flexibility see Section 119.2 of this Schedule.

Correspondence regarding this specification should be addressed to the Secretary, Canadian Government Purchasing Standards Committee, National Research Council, OTTAWA, Canada.

REFERENCE COPY

TENTATIVE

No. 1-GP-56-1941.

Issued 15 February, 1941.

CANADIAN GOVERNMENT PURCHASING STANDARDS COMMITTEE

Specification for Interior Priming Paint for Wood

1. Definition

This specification applies to ready-mixed paint suitable for use as a primer on interior woodwork*.

2. General

The paint shall consist of a suitable pigment mixture adequately milled with treated drying oils or varnish, or a mixture thereof, together with the necessary thinners. It shall be of brushing consistency and have good spreading and levelling properties. It shall not have any disagreeable odour during or after application.

The paint shall be white in colour unless otherwise required by the purchaser. For other suitable colours reference may be made to the lighter colours described in Schedule No. 1-GP-12. A limited proportion of lead pigments may be incorporated for tinting purposes only (see Clause 9 below, Lead Content of Pigment).

3. Consistency

The consistency of the paint shall not be less than 10 nor more than 50 seconds at 25°C. (77°F.), as determined by the Gardner mobilometer. (Appendix B)

4. Hiding Power

The paint shall hide a contrasting surface entirely when applied at a coverage of 400 square feet per gallon. (Appendix C)

*See also Specifications No. 1-GP-38, Enamel Undercoating, Interior, White and Grey; and No. 1-GP-42, Paint for Priming Plaster and Concrete Surfaces.

5. Flash Point

The flash point of the paint shall not be lower than 38°C. (100°F.) closed cup test. (Appendix D)

6. Drying Time

The paint shall dry satisfactorily in not more than 16 hours. (Appendix E)

7. Coarse Particles and Skins

The paint shall not contain more than 2.0 per cent of material retained on a 44 micron sieve. (Appendix F)

8. Volatile Portion

The content of volatile matter shall not exceed 20 per cent of the paint. The content of water shall not exceed 1.0 per cent of the paint. (Appendix H)

9. Lead Content of Pigment

The extracted pigment shall not contain more than 2.0 per cent of lead (Pb). (Appendix H)

10. Flexibility

The paint shall not crack or peel when subjected to the flexibility test described in Appendix G.

A P P E N D I XMethods of Sampling and TestingA. Sampling

A single unopened container, selected at random from each lot of 1000 containers or less, shall be supplied for test. When the capacity of containers exceeds one gallon, the sample

may be procured by opening a container, thoroughly mixing its contents and withdrawing a specimen of not less than one pint which shall be placed immediately in an air-tight can completely filling it. Particular attention shall be paid to the thorough mixing of the paint in the container so opened.

B. Consistency

The Gardner mobilometer shall be used with a disc perforated with 51 holes each 1/16 inch in diameter, the weight of the disc, plunger and weight pan being 100 gm.

The paint is stirred thoroughly and strained through a 177 micron sieve. The mobilometer is levelled by means of the screws in the base and the cylinder is filled to a depth of 20 cm. with the paint. The test is carried out at a temperature of $25 \pm 2^{\circ}\text{C}$. The plunger is timed by means of a stopwatch while it falls through a distance of 10 cm. The plunger is raised, the paint is wiped from the stem and the test is repeated. Six measurements are made; the first is discarded, and the mean of the succeeding 5 readings is taken as a measure of the consistency.

C. Hiding Power

This test shall be carried out on a hiding-power chart of black-and-grey checkerboard design one square foot in area. The brightness of the chart shall be not more than 4 per cent for black areas and 24 ± 2 per cent for grey areas, referred to a standard magnesia surface.

The hiding-power chart is weighed to the nearest 0.1 gm. The weight of 1/400th (0.0025) of a gallon of the paint is calculated to the nearest 0.1 gm. This quantity of paint is poured on the chart and brushed out uniformly with a brush previously filled with the paint. The coated chart is then weighed and if necessary more paint is added and brushed out. The weighings and brushings are continued as rapidly as possible until the required weight of paint has been applied uniformly. The surface is allowed to dry thoroughly.

When viewed in diffuse daylight in a direction normal to the surface there shall be no visible difference in the brightness of the black and grey areas.

D. Flash Point

The flash point shall be determined by means of a closed cup in accordance with Procedure D56-36 of the American Society for Testing Materials (A.S.T.M.).

E. Drying Time

To determine the time of drying, the sample is applied to a thoroughly cleaned non-absorbent surface so as to form a dry film approximately 40 microns thick. The film is dried at a temperature of $25 \pm 2^\circ\text{C}$., a relative humidity of 60 ± 5 per cent, and an illumination of 30 ± 5 foot candles. It is tested at intervals with the finger at points not less than 2 cm. from the edges. The film is considered dry when it no longer adheres to the finger and does not rub up appreciably when the finger is lightly rubbed across the surface.

F. Coarse Particles and Skins

The content of coarse particles and skins shall be determined in accordance with A.S.T.M. Procedure D185-37.

G. Flexibility

The paint is brushed out on a sheet of tin plate approximately 0.3 mm. thick to give a dried film 30 to 40 microns thick. It is then allowed to dry for 18 hours at room temperature, baked at $105-110^\circ\text{C}$. for 5 hours and then cooled 30 minutes. It is maintained at a temperature of 25°C . and is bent rapidly through 180 degrees over a rod 1/4 inch in diameter, the painted surface being uppermost.

H. Other tests required by this specification shall be made in accordance with A.S.T.M. Procedure D215-37.