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1-GP-64
CANCELLATION
31 August 1956

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

INTERIOR COLD WATER PAINT; PASTE FORM

CGSB Specification 1-GP-64, dated 31 December 1947 is cancelled as of 31 August 1956. Superseded by:

1-GP-100a	13 May 1956
1-GP118	13 April 1956

REFERENCE COPY

No. 1-GP-64-1947.

Issued 31 December, 1947.
Supersedes Issue 29 June, 1942.
and Amendment.

CANADIAN GOVERNMENT PURCHASING STANDARDS COMMITTEE

Specification for
INTERIOR COLD WATER PAINT, PASTE FORM

1. Defintion

The material required by this specification shall produce when mixed with cold water a paint suitable for interior use primarily on plaster, concrete or wall board. It shall be of such composition as to produce a paint film that is not readily removed by water.

2. General

- (a) The material shall be a paste consisting of a finely ground uniform mixture of pigments, binder, and liquid with suitable preservatives. When mixed according to directions it shall be capable of application by brush and shall dry to a smooth uniform flat finish.
- (b) The paint shall not have a disagreeable odour during or after application.
- (c) Pigments used for tinting shall be limeproof.
- (d) Printed directions for mixing shall be supplied with each package.

3. Lead Content

The paste shall not contain more than 1.5 per cent of lead (Pb).
Method 50.6

4. Mixing Properties

The material shall mix readily with water at 21°C. (70°F.) in the proportion of 2 volumes of the paste to 1 volume of water. After mixing with water in the specified manner, the paint shall then meet the requirements given below.
Method 9.2

5. Colour

The dried paint film shall match an agreed sample.

6. Hiding Power

The paint shall hide a contrasting surface entirely when applied at a coverage of 1000 sq. ft. per gallon of paste.
Method 14.5

7. Drying Time

The paint shall dry hard within six hours.
Method 5.8

2.

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8. Coarse Particles

The paint shall not contain more than 0.5 per cent of material retained on a 74 micron sieve. Method 15.2,

9. Chalking

A dry black cloth shall not be soiled by gentle rubbing on the paint film after the film has dried for 5 days.

10. Cleansing

The dried paint film shall pass the cleansing test. Method 114.1

11. Colour Stability

The dried paint film shall show no appreciable change in colour when kept in daylight or darkness for a period of 10 days. Method 120.2

12. Keeping Qualities

When stored in the original unopened container the material, as received, and for 3 months thereafter shall not show separation of the liquid, or caking nor have a disagreeable odour.

13. Methods of Sampling and Testing

(a) At least one quart of the paste shall be supplied for test purposes, the sampling to be carried out in accordance with section 1.3 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

TENTATIVE

No. 1-GP-64-1944.

Issued 29 June, 1942.

Amended 25 May, 1944.

CANADIAN GOVERNMENT PURCHASING STANDARDS COMMITTEE

Specification for
Interior Cold Water Paint, Paste Form

1. Definition

The material required by this specification shall produce when mixed with cold water a paint suitable for interior use primarily on plaster, concrete or wall board. It shall be of such composition as to produce a paint film that is not readily removed by water.

2. General

The material shall be a paste consisting of a finely ground uniform mixture of pigments, binder, and liquid with suitable preservatives. When mixed according to directions it shall be capable of application by brush and shall dry to a smooth uniform flat finish. The paint shall not have a disagreeable odour during or after application. Printed directions for mixing shall be supplied with each package.

3. Lead Content

The paste shall not contain more than 1.5 per cent of lead (Pb). (Appendix B)

4. Mixing Properties

The material shall mix readily with water at 21°C. (70°F.) in the proportion of 2 volumes of the paste to 1 volume of water. After mixing with water in the manner described in Appendix C the paint shall then meet the requirements given below.

5. Colour

The paint shall produce a finish that is either white or tinted, matching an agreed sample. Pigments used for tinting shall be lime-proof.

6. Hiding Power

The paint shall hide a contrasting surface entirely when applied at a coverage of 1000 sq. ft. per gallon of paste. (Appendix D)

7. Drying Time

The paint shall dry hard within 6 hours. (Appendix E)

2.

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8. Coarse Particles

The paint shall not contain more than 0.5 per cent of material retained on a 74 micron sieve. (Appendix F)

9. Chalking

A dry black cloth shall not be soiled by gentle rubbing on the paint film after the film has dried for 5 days.

10. Cleansing

The dried paint film shall pass the cleansing test described in Appendix G.

11. Colour Stability

The dried paint film shall show no appreciable change in colour when kept in daylight or darkness for a period of 10 days. (Appendix H)

12. Keeping Qualities

When stored in the original unopened container the material, as received, and for 3 months thereafter shall not show separation of the liquid, or caking nor have a disagreeable odour.

A P P E N D I X

Methods of Sampling and Testing

A. Sampling

A representative sample of not less than 1 pint shall be taken.

B. Lead Content

The lead content shall be determined according to Procedure D215-41 of the American Society for Testing Materials.

C. Mixing Properties

Two volumes (approximately 200 ml.) of the paste is placed in a 600 ml. beaker and one volume of water at 21°C. (70°F.) is added gradually while stirring. The mixture is allowed to stand with occasional stirring for 30 minutes and is then strained through a 250 micron sieve. The paint is applied to a panel of smooth wall board and the dry film is examined for smoothness and uniformity.

D. 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.

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The hiding-power chart is weighed to the nearest 0.1 gm. The weight of 0.001 gallon of the paste is determined. The amount of mixed paint (prepared as in Appendix C) containing this amount of paste, 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 brushings and weighings are repeated as rapidly as possible until the above stipulated amount 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.

E. Drying Time

To determine the time of drying, the mixture as prepared in Appendix C is brushed out on a non-absorbent surface so as to give a dry film approximately 40 microns thick. The panel is then placed in a vertical position in air at $25 \pm 2^\circ\text{C}$. and at a relative humidity of 60 ± 5 per cent. After about 2 hours, the film is tested at intervals with the finger at points not less than 2.0 cm. from the edges. The paint is considered to have dried hard when light rubbing with the finger does not remove or mar the film.

F. Coarse Particles

A 100 gram portion of the mixture, prepared as in Appendix C, is strained through a 74 micron sieve and the residue is washed well with water, dried and weighed.

G. Cleansing

After the paint has been mixed, it is applied to a smooth wall board panel and allowed to dry for 14 days. Several marks are made on the painted panel by dipping the finger in finely pulverized graphite and rubbing it over the surface. These marks shall be easily removable by careful washing with a piece of clean cheesecloth and a warm neutral soap (Specification 2-GP-2) solution without appreciably marring the surface of the paint.

H. Colour Stability

The paint is applied to two panels of wall board and allowed to dry for 6 hours. One panel is kept in darkness and the other in a north exposure for 10 days, at the end of which time there should be no visible difference in the colour of the two panels when compared with a freshly prepared panel dried for 6 hours.

List of Changes in Present Revision

In the present revision of this specification changes have been made in the following:

1. Clause 2, General
2. Clauses 3 to 11 have been renumbered.
3. A new clause 8, Coarse Particles, has been added.
4. Clause 7, Drying Time.
5. Appendices B to G have been renumbered.
6. Appendix C, Mixing Properties.
7. Appendix E, Drying Time.
8. A new Appendix F, Coarse Particles, has been added.
9. Appendix G, Cleansing.