

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Standard

for

COATING, MULTICOLOR, DISPERSION TYPE

CGSB 1-GP-139b, is hereby cancelled. This type of coating is no longer used.

Supply Information and Data Management Branch
Direction de la gestion des données et de
l'information sur les approvisionnements

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for

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5. DETAIL REQUIREMENTS

5.3 Solvent Resistance - Delete this requirement.



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SPECIFICATION

FOR

COATING;
MULTICOLOR, DISPERSION TYPE

1 - GP - 139b

30 MARCH 1962

SUPERSEDES 1 - GP - 139A

19 FEBRUARY 1960

THIS SPECIFICATION HAS BEEN PREPARED BY A GOVERNMENT -
INDUSTRY COMMITTEE TO COMPLY WITH THE SPECIFIC REQUIREMENTS
OF THE FEDERAL GOVERNMENT. IT IS INTENDED FOR USE IN A
PROCUREMENT SYSTEM THAT INCLUDES INSPECTION PROCEDURES TO
ENSURE COMPLIANCE WITH THE REQUIREMENTS OF THE SPECIFICATION
AND ITS USE WITHOUT SUCH INSPECTION PROCEDURES MAY NOT BE
RECOMMENDED.

THIS SPECIFICATION APPLIES TO A COATING THAT PRODUCES A MULTICOLOR PROTECTIVE AND
DECORATIVE FILM SUITABLE FOR USE ON ALL TYPES OF INTERIOR WALL SURFACES,
EITHER NEW OR PREVIOUSLY PAINTED, PROVIDED THAT THEY HAVE BEEN
PROPERLY PREPARED IN ACCORDANCE WITH THE
MANUFACTURER'S INSTRUCTIONS.

DEPARTMENT OF DEFENCE PRODUCTION, OTTAWA, CANADA

Price

15 CENTS

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PIGMENTS AND RELATED COMMODITIES

and

Construction and Maintenance Subcommittee

(Membership at date of approval by the Committee
for submission to the CGSB)

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CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

COATING; MULTICOLOR, DISPERSION TYPE*

1. DEFINITION

1.1 This specification applies to a coating that produces a multicolor protective and decorative film suitable for use on all types of interior wall surfaces, either new or previously painted, provided that they have been properly prepared in accordance with the manufacturer's instructions.

1.2 For more detailed information on uses, see 8.1.

2. APPLICABLE PUBLICATIONS

The following publication is applicable to this specification:

2.1 CGSB 1-GP-71, Methods of Testing Paints and Pigments.

2.2 Reference to the above publication and other specifications is to the issue in effect on the date of invitation to tender, unless otherwise specified.

3. CLASSIFICATION

The coating shall be supplied in two types as specified by the purchaser:

Type I - Nitrocellulose Base.
Type II - Low-Odor Material.

4. GENERAL REQUIREMENTS

4.1 Coating material complying with this specification shall consist of a film-forming pigmented vehicle, properly dispersed in an immiscible liquid.

4.2 As received, it shall be suitable for spray application, and shall be applied by spray from proper equipment in accordance with the manufacturer's instructions.

4.3 The material as received shall be easily mixed by shaking the container or by boxing the material from one container to another. It shall not be mixed by stirring because of the danger of breaking the individual colored agglomerates and thereby reducing the multicolor effect.

4.4 The composition shall produce a textured coating of a multicolor effect and shall satisfactorily cover normal wall-construction materials at a rate of approximately 150 square feet per gallon.

* Nothing in this specification is to be construed as granting any right in connection with any method, apparatus or product covered by letters patent, or as insuring anyone against liability for infringement of letters patent.

4.5 Odor* - When sprayed, and during drying, Type I material may have the characteristic odor of lacquer solvents. Type II material shall have no more odor than mineral spirits.

4.6 Gloss and Color - Gloss, color and general appearance shall be as agreed between the supplier and the purchaser.

4.7 When stored in the original unopened containers at temperatures between 40 and 80 °F (4 and 27 °C), the material shall comply with the requirements of this specification for at least three months from the date of shipment.

4.8 Qualification - When requested by the purchaser, the coating shall be a product qualified by the specified procedure, and such qualification shall be a prerequisite for tendering (see 8.5).

5. DETAIL REQUIREMENTS

Material to this specification shall comply with the following detail requirements:

		<u>Min</u>	<u>Max</u>	<u>Test Method</u> <u>1-GP-71**</u>
5.1	Consistency, Krebs units	65	85	4.5
5.2	Drying Time, hr			
5.2.1	Type I, hard-dry	-	6	5.1
5.2.2	Type II, hard-dry	-	18	5.1

5.3 Solvent Resistance - A film of the coating prepared as specified and immersed in 1-GP-4 thinner for two hours shall show no blistering, wrinkling nor peeling. The multicolor effect shall remain distinct, and there shall be no evidence of the separate color particles blending or running into each other. After subsequent drying for two hours, the film shall show not more than slight softening, or other film defects.

Method 108.2

5.4 Color Stability - The dried film shall show no appreciable change in color when exposed 48 hours in the Fade-Ometer.

Method 120.1

5.5 Scrubability - The dried film shall withstand 5,000 cycles without showing more than a slight difference between the scrubbed and unscrubbed portions of the panel.

Method Par. 7.4.2

5.6 Applicability and Appearance - A sprayed film of the composition applied as directed in the prescribed method shall exhibit the following characteristics:

5.6.1 It shall be applicable to a vertical surface using approximately 1 gallon per 150 square feet in one application, and shall show no evidence of running or sagging. After the first coat has dried (1 hour in the case of Type I and 4 hours in the case of Type II), the application of a second coat shall cause no wrinkling, lifting nor other film defects.

* A test for odor may be made at the discretion of the testing authority.

** See paragraph 7.4 for preparation of panels.

5.6.2 The resultant dried film shall show a uniform, coarse, orange-peel texture and each color particle of the multicolor effect shall be distinct. There shall be a definite line of color demarkation between the various colored particles and there shall be no evidence of colors blending or running into each other.

Method 134.15

6. PREPARATION FOR DELIVERY

6.1 Unless otherwise specified, commercial packing, packaging and marking shall be acceptable.

6.2 Labelling - In addition to the labelling requirements of any relevant Acts or Regulations, each container shall be suitably labelled to show the following information:

Manufacturer's Name and Address

Name of Material

CGSB Specification No.

Type

Qualification No. (when required)

Color Description

Manufacturer's Batch No.

Manufacturer's Code No.

Expiry Date - not less than three months from date of shipment

Mixing Instructions

Directions for Use

CAUTIONS: KEEP FROM FREEZING.

DO NOT MIX WITH ANY OTHER MATERIAL,
APPLY BY SPRAY ONLY, IN ACCORDANCE
WITH THE MANUFACTURER'S INSTRUCTIONS.

7. INSPECTION

7.1 Sampling - Sampling shall be carried out in accordance with Method 1.1 of CGSB 1-GP-71.

7.2 Testing - Unless otherwise specified, the methods of testing shall be those in 1-GP-71, using the method specified with each requirement.

7.3 Classification of Tests - Tests for determining compliance with this specification shall be classified as follows:

7.3.1 Qualification Tests - Those tests that are performed on all samples submitted for qualification as a satisfactory product. They shall consist of all tests necessary to establish compliance with the requirements of this specification.

7.3.2 Lot Acceptance Tests - Those tests used to determine the acceptability of a lot or batch of a qualified product. The testing authority may test the material for compliance with any of the requirements of this specification, and may reject a lot or batch on the basis of any requirement in the specification.

7.4 Preparation of Test Panels

7.4.1 All test panels shall be prepared as specified in applicable methods except that they shall be prepared by spray application only, to give a dry film thickness of approximately 3.5 mils, obtainable by spraying at approximately 150 square feet per gallon.

7.4.2 In checking the scrubbability requirement (5.5), a masonite panel sealed with one coat of 1-GP-119 primer-sealer and dried 3 hours shall be used for the application of multicolor finish for testing in accordance with Method 125.1.

8. NOTES

8.1 Intended Uses

8.1.1 Coatings meeting the requirements of this specification are intended for application on interior walls and ceilings of buildings. They are suitable for application over practically any type of properly prepared wall or trim surfaces including wallboard, gypsumboard, dry plaster, wood, cement, brick, concrete block and metals.

8.1.2 For Type I material, which is primarily intended for new constructions, most surfaces require priming for best results, and previously painted surfaces must be sealed. The primers and sealers to be used on these various surfaces should be purchased from the supplier of the multicolor coating composition and shall be applied in accordance with his instructions.

8.1.3 Type II material, which is intended for maintenance painting in occupied buildings, does not require a sealer on previously painted surfaces. But where the color of the painted surface is distinctly different from the base color of the multicolor coating composition to be used, two coats of multicolor coating composition may be required or, where economy is necessary, white or tinted 1-GP-119 primer-sealer may be used followed by one coat of 1-GP-139 coating. New wood should be primed with 1-GP-38 enamel under-coater and new metal should be coated with such primers as 1-GP-40 and 1-GP-140 before application of Type II coating.

8.1.4 As this composition contains water, it should not be applied at temperatures below 50 °F (10 °C). Also, the surface upon which the coating is applied should be above 50 °F (10 °C) and should be free from condensation or moisture.

8.1.5 One coat of the composition applied at the rate of approximately 150 square feet per gallon will adequately cover most surfaces when applied in accordance with the manufacturer's instructions.

8.2 Storage

8.2.1 This coating composition should be stored in an area where the temperature is maintained between 40 and 80 °F (4 and 27 °C), and under no circumstances should it be subjected to temperatures above 120 °F (51 °C).

8.2.2 Since it contains water, it should not be allowed to freeze, but if it should become frozen, it may be restored by thawing slowly at room temperature. It must not be agitated while in a partly frozen condition.

8.3 Application and Equipment

8.3.1 The painter can control the particle size with this special finish. The pattern may be varied from large to fine break-up by using gun controls to adjust air pressure and atomizing pressure. The exact setting of air pressure depends on the equipment being used and the sprayman's preferences. Best results are usually obtained by following manufacturer's instructions. Information regarding equipment required may be obtained from the paint supplier and from the equipment manufacturer.