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Canadian General Standards Board | Office des normes générales du Canada

Series 1

Série des 1

WITHDRAWAL

June 2011

Selected standards in Series (Paints, Pigments and Related Coatings)

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June 2011

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CAN/CGSB-1.2-98

Boiled Linseed Oil (87.040)

CAN/CGSB-1.5-M91

Low Flash Petroleum Spirits Thinner (Reaffirmation of December 1991) (87.040)

CAN/CGSB-1.28-98

Exterior Alkyd House Paint (87.040)

CAN/CGSB-1.36-97

General Purpose Interior Alkyd Varnish (87.040)

CAN/CGSB-1.38-2000

Interior Enamel Undercoater (87.040)

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CAN/CGSB-1.2-98

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CAN/CGSB-1.5-M91

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CAN/CGSB-1.28-98

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CAN/CGSB-1.57-2003

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CAN/CGSB-1.59-97

Peinture-email, d'exterieur, brillante, aux resins alkydes (87.040)

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1-GP-71, No. 38-96

Methodes d'essai des peintures et pigments Resistance a l'opalescence des produits-laque de finition (87.040)

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CAN/CGSB-1.73-97

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CAN/CGSB-1.74-2001

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CAN/CGSB-1.81-M90

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CAN/CGSB-1.84-M91

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CAN/CGSB-1.84-M91

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CAN/CGSB-1.100-99

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Semigloss Alkyd Air Drying and Baking Enamel (87.040)

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Quick-Drying Primer (87.040)

CAN/CGSB-1.105-M91

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CAN/CGSB-1.114-M91

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CAN/CGSB-1.118-95

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CAN/CGSB-1.132-M90

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CAN/CGSB-1.135-99

Peinture pour couche primaire, au chromate de zinc, à faible sensibilité à l'humidité (87.040)

CAN/CGSB-1.135-99

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CAN/CGSB-1.146-99

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CAN/CGSB-1.150-M91

Clear Lacquer for Wood Furniture (87.040)

CAN/CGSB-1.150-M91

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CAN/CGSB-1.153-2000

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CAN/CGSB-1.153-2000

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CAN/CGSB-1.154-M89

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CAN/CGSB-1.154-M89

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CAN/CGSB-1.159-92

Acrylic Cellulose Nitrate Gloss Lacquer (87.040)

CAN/CGSB-1.159-92

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CAN/CGSB-1.160-93

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CAN/CGSB-1.162-2004

Emulsion Coating for Stucco and Masonry (87.040)

CAN/CGSB-1.165-2004

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CAN/CGSB-1.171-98

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CAN/CGSB-1.175-97

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CAN/CGSB-1.176-2000

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1-GP-180Ma

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CAN/CGSB-1.160-93

Peinture-laque aux résines acryliques et au nitrate de cellulose, peu brillante (87.040)

CAN/CGSB-1.162-2004

Revetement de type emulsion pour stuc et maconnerie (87.040)

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CAN/CGSB-1.171-98

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CAN/CGSB-1.176-2000

Revêtement de polyuréthane, d’intérieur, durci à l’humidité, non pigmenté (87.040)

CAN/CGSB-1.177-M91

Revêtement de polyuréthane, à deux constituants séparés, non jaunissant et non farinant (87.040)

1-GP-180Ma

Revêtement de polyuréthanne, à deux constituants séparés, pour utilisation générale (87.040)

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CAN/CGSB-1.189-2000

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CAN/CGSB-1.190-M90

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CAN/CGSB-1.190-M90

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1-GP-191M

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1-GP-191M

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1-GP-192-Ma

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1-GP-192-Ma

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CAN/CGSB-1.193-99

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CAN/CGSB-1.193-99

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CAN/CGSB-1.195-99

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CAN/CGSB-1.198-2001

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Interior Alkyd Low Gloss Enamel (87.040)

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CAN/CGSB-1.213-2004

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CAN/CGSB-1.214-2004

Heavy-Metal-Free, Water-Borne, Marine Primer for Steel and Light-Alloy Surfaces (87.040)

CAN/CGSB-1.214-2004

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CAN/CGSB-1.500-75

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CAN/CGSB-1.501-M89

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Canadian
General
Standards
Board

1-GP-71
No. 38-96

Supersedes 1-GP-71,
Methods 38.1, 38.2, 38.3 and 38.4

Methods of Testing Paints and Pigments

Blushing Resistance of Lacquer Finishes

CGSB Standard

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Canadian General Standards Board

1-GP-71
No. 38-96

Supersedes 1-GP-71,
Methods 38.1, 38.2 and 38.3,
June 1980 and Method 38.4,
January 1981

METHODS OF TESTING PAINTS AND PIGMENTS

BLUSHING RESISTANCE OF LACQUER FINISHES

Prepared by the
Canadian General Standards Board

Published May 1996 by the
Canadian General Standards Board
Ottawa, Canada K1A 1G6

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Acknowledgment is made for the translation of this Canadian General Standards Board standard by the Translation Bureau of the Department of the Secretary of State.

Canadian General Standards Board

CGSB Ottawa Canada K1A 1G6	METHODS OF TESTING PAINTS AND PIGMENTS	1-GP-71
	Blushing Resistance of Lacquer Finishes	No. 38-96

Supersedes 1-GP-71,
Methods 38.1, 38.2, 38.3, June 1980
and Method 38.4, January 1981

1. PURPOSE AND SCOPE

1.1 This standard describes four methods[1] for determining the resistance to blushing of lacquer and lacquer thinners:

Method A – Blushing Resistance of Lacquer Thinners at Normal Temperature and Humidity

Method B – Blushing Resistance of Lacquers at Normal Temperature and Humidity

Method C – Blushing Resistance of Lacquers at High Temperature and Humidity

Method D – Blushing Resistance of Lacquers at High Humidity.

1.2 The testing and evaluation of a product against this method may require the use of materials and/or equipment that could be hazardous. This document does not purport to address all the safety aspects associated with its use. Anyone using this method has the responsibility to consult the appropriate authorities and to establish appropriate health and safety practices in conjunction with any existing applicable regulatory requirements prior to its use.

2. PRINCIPLE

2.1 The lacquer or lacquer thinner solution is applied to a clean, non-absorbent surface and allowed to dry at a specified temperature and relative humidity. The film is evaluated for blushing throughout the drying process.

3. REFERENCED PUBLICATIONS

3.1 The following publications are referenced in this method:

3.1.1 Canadian General Standards Board (CGSB)

1-GP-71 – Methods of Testing Paints and Pigments:

Method 4.5 – Stormer Consistency

Method 26.1 – Solvent Power

Method 98.2 – Coating of Metal and Glass Panels with One Coat of Material

Method 100.1 – Preparation of Steel Panels – Solvent Cleaned, Unabraded

Method 101.1 – Preparation of Tin-Plated Panels – Abraded and Unabraded

Method 102.1 – Preparation of Glass Panels.

CAN/CGSB-1.110 – General Purpose Thinner for Lacquers.

3.1.2 American Society for Testing and Materials (ASTM)

D 823 – Methods for Producing Films of Uniform Thickness of Paint, Varnish and Related Products on Test Panels.

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[1] Method A supersedes 1-GP-71 Method 38.1, Method B supersedes Method 38.2, Method C supersedes Method 38.3 and Method D supersedes Method 38.4.

3.2 A reference to a regulation is always to the latest issue. A dated reference is to the issue specified. An undated reference is to the latest issue unless otherwise specified by the authority applying this method. The sources are given in the Notes section.

4. DEFINITION

4.1 The following definition is applicable to this method:

4.1.1 ***Blushing*** – A milky opalescence that sometimes develops within the top layer of a lacquer film as it dries, caused by the deposition of moisture from the air. It is related to solvent evaporation and relative humidity, and cannot be removed by wiping.

5. APPARATUS AND MATERIALS

5.1 **Cabinet:** that can maintain the specified temperatures and relative humidities and has an airflow velocity of 1.0 m/s.

5.2 **Test panels:** of glass, steel, tin-plated or gilding metal, as specified in the relevant method.

5.3 **Drawdown blade:** with a clearance of 75 µm, or a

Motor-driven dip coater: as described in ASTM D 823, Method B.

6. PROCEDURES

6.1 Method A — Blushing Resistance of Lacquer Thinners at Normal Temperature and Humidity

6.1.1 Dissolve 5 g of cellulose nitrate, obtained as described in CGSB standard 1-GP-71, Method 26.1, in 25 mL of the thinner under test.

6.1.2 Apply (CGSB 1-GP-71, Method 98.1) some of the solution by means of a 75 µm clearance drawdown blade to a glass panel (CGSB 1-GP-71, Method 102.1) at 23 ± 2°C and 65 ± 2% RH and the specified air velocity over the panel. Examine the film for evidence of blushing (par. 4.1.1) throughout the drying process and at the end of the test.

6.2 Method B — Blushing Resistance of Lacquers at Normal Temperature and Humidity

6.2.1 Apply the lacquer under test to a glass panel and evaluate as specified in Method A.

6.3 Method C — Blushing Resistance of Lacquers at High Temperature and Humidity

6.3.1 Apply (CGSB 1-GP-71, Method 98.1) the lacquer under test to a glass panel (CGSB 1-GP-71, Method 102.1) by means of a 75 µm clearance drawdown blade, at 35 ± 1°C and 92 ± 5% RH and the specified air velocity. Examine the film for evidence of blushing (par. 4.1.1) throughout the drying process and at the end of the test.

6.4 Method D — Blushing Resistance of Lacquers at High Humidity

6.4.1 Reduce the lacquer under test to a consistency of 65 to 70 Krebs units (CGSB 1-GP-71, Method 4.5) with a thinner conforming to CAN/CGSB-1.110.

6.4.2 Apply the thinned lacquer at 25 ± 2°C and 92 ± 5% RH, by dipping (CGSB 1-GP-71, Method 98.2) clean 75 × 150 mm tin-plated (CGSB 1-GP-71, Method 101.1) or steel (CGSB 1-GP-71, Method 100.1) panels and withdrawing them at a uniform rate. Evaluate for blushing as specified in Method C.

7. REPORT

Report the following information:

7.1 The method(s) used.

7.2 The material under test.

7.3 The evaluation of blushing.

7.4 The number of this method: 1-GP-71 No. 38-96.

8. NOTES

8.1 Sources of Referenced Publications

8.1.1 The publications referred to in par. 2.1.1 may be obtained from the Canadian General Standards Board, Sales Centre, Ottawa, Ontario K1A 1G6. Telephone (613) 941-8703 or 1-800-665-CGSB (Canada only). Fax (613) 941-8705.

8.1.2 The publication referred to in par. 2.1.2 may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, U.S.A, telephone (610) 832-9585 or fax (610) 832-9555, or from the Standards Council of Canada, Standards Sales Branch, 45 O'Connor Street, Suite 1200, Ottawa, Ontario K1P 6N7, telephone (613) 238-3222 or fax (613) 995-4564.