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Series 1
Série des 1

WITHDRAWAL

October 2011

Selected standards in the series Paints, pigments and related products

These CGSB standards and National Standards of Canada are hereby withdrawn due to limited use and support for their revision.

The Standards Council of Canada requires that accredited Standards Development Organizations, such as the CGSB, regularly review a consensus Standard to determine whether to re-approve, revise or withdraw. The review cycle is normally five years from the publication date of the latest edition of the Standard.

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RETRAIT

Octobre 2011

Sélection de normes de la série Peintures, pigments et produits connexes

Ces normes de l'ONGC et ces Normes nationales du Canada sont retirées par le présent avis en raison de leur utilisation limitée et du manque de support pour leur révision.

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CAN/CGSB-1.5-M91

Low Flash Petroleum Spirits Thinner
(ICS 87.040)

CAN/CGSB-1.28-98

Exterior Alkyd House Paint (ICS 87.040)

CAN/CGSB-1.36-97

General Purpose Interior Alkyd Varnish
(ICS 87.040)

CAN/CGSB-1.38-2000

Interior Enamel Undercoater (ICS 87.040)

CAN/CGSB-1.40-97

Anticorrosive Structural Steel Alkyd Primer
(ICS 87.040)

CAN/CGSB-1.57-2003

Interior Alkyd Semigloss Enamel
(ICS 87.040)

CAN/CGSB-1.59-97

Alkyd Exterior Gloss Enamel (ICS 87.040)

CAN/CGSB-1.60-97

Interior Alkyd Gloss Enamel (ICS 87.040)

cette information. Ces normes doivent être consultées à des fins archivistiques seulement puisque leur contenu a été révoqué à la date du présent avis de retrait.

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CAN/CGSB-1.5-M91

Diluant, essence minérale à faible point
d'éclair (ICS 87.040)

CAN/CGSB-1.28-98

Peinture aux résines alkydes d'extérieur
pour bâtiments (ICS 87.040)

CAN/CGSB-1.36-97

Vernis d'intérieur aux résines alkydes
d'usage général (ICS 87.040)

CAN/CGSB-1.38-2000

Peinture-émail d'intérieur, pour couche de
fond (ICS 87.040)

CAN/CGSB-1.40-97

Peinture pour couche primaire
anticorrosion, aux résines alkydes, pour
acier de construction (ICS 87.040)

CAN/CGSB-1.57-2003

Peinture-émail, d'intérieur, semi-brillante,
aux résines alkydes (ICS 87.040)

CAN/CGSB-1.59-97

Peinture-émail, d'extérieur, brillante, aux
résines alkydes (ICS 87.040)

CAN/CGSB-1.60-97

Peinture-émail brillante d'intérieur aux
résines alkydes (ICS 87.040)

CAN/CGSB-1.61-2004

Exterior and Interior Marine Alkyd Enamel
(ICS 87.040)

CAN/CGSB-1.69-98

Aluminum Paint (ICS 87.040)

1-GP-71 (Oct 1983)

Methods of Testing Paints and Pigments
(ICS 87.040)

1-GP-71

Methods of Testing Paints and Pigments

No. 5-96

Drying Times of Paints and Related
Coatings (ICS 87.040)

No. 38-96

Blushing Resistance of Lacquer
Finishes (ICS 87.040)

No. 73-96

Beilstein Test for Chlorinated Solvents
(ICS 87.040)

CAN/CGSB-1.73-97

Exterior and Interior Enamel for Floors
(ICS 87.040)

CAN/CGSB-1.74-2001

Alkyd Traffic Paint (ICS 87.040)

CAN/CGSB-1.76-2000

Interior and Exterior Heat-Resistant Enamel
(ICS 87.040)

CAN/CGSB-1.81-M90

Air Drying and Baking Alkyd Primer for
Vehicles and Equipment (ICS 87.040)

CAN/CGSB-1.84-M91

Alkyd Primer for Hardwood (ICS 87.040)

CAN/CGSB-1.61-2004

Peinture-émail aux résines alkydes,
d'extérieur et d'intérieur, marine
(ICS 87.040)

CAN/CGSB-1.69-98

Peinture à l'aluminium (ICS 87.040)

1-GP-71 (oct. 1983)

Méthodes d'essai des peintures et pigments
(ICS 87.040)

1-GP-71

Méthodes d'essai des peintures et pigments

N° 5-96

Durée de séchage des peintures et
revêtements apparentés (ICS 87.040)

N° 38-96

Résistance à l'opalescence des
produits-laque de finition (ICS 87.040)

N° 73-96

Détermination de la présence de
solvants chlorés par l'essai de Beilstein
(ICS 87.040)

CAN/CGSB-1.73-97

Peinture-émail d'extérieur et d'intérieur,
pour sols (ICS 87.040)

CAN/CGSB-1.74-2001

Peinture alkyde de démarcation routière
(ICS 87.040)

CAN/CGSB-1.76-2000

Peinture-émail résistant à la chaleur,
d'intérieur et d'extérieur (ICS 87.040)

CAN/CGSB-1.81-M90

Peinture pour couche primaire aux résines
alkydes, séchant à l'air ambiant et au four,
pour véhicules automobiles et équipement
(ICS 87.040)

CAN/CGSB-1.84-M91

Peinture d'impression aux résines alkydes,
pour bois dur (ICS 87.040)

CAN/CGSB-1.88-92

Gloss Alkyd Enamel, Air Drying and Baking (ICS 87.040)

CAN/CGSB-1.100-99

Interior Flat Latex Paint (ICS 87.040)

CAN/CGSB-1.104-M91

Semigloss Alkyd Air Drying and Baking Enamel (ICS 87.040)

CAN/CGSB-1.105-M91

Quick-Drying Primer (ICS 87.040)

CAN/CGSB-1.114-M91

Quick-Drying Flat Enamel (ICS 87.040)

CAN/CGSB-1.118-95

Interior Flat Alkyd Finish (ICS 87.040)

CAN/CGSB-1.119-2000

Interior Latex Primer-Sealer (ICS 87.040)

CAN/CGSB-1.122-99

Anticorrosive Vinyl Primer (ICS 87.040)

CAN/CGSB-1.132-M90

Zinc Chromate Primer, Low Moisture Sensitivity (ICS 87.040)

CAN/CGSB-1.135-99

Flat Alkyd Enamel for Equipment (ICS 87.040)

CAN/CGSB-1.138-97

Exterior Latex Flat Paint (ICS 87.040)

CAN/CGSB-1.143-98

Silicone Alkyd Heat-Resistant Aluminum Enamel (ICS 87.040)

CAN/CGSB-1.88-92

Peinture-émail brillante aux résines alkydes, séchant à l'air ambiant et au four (ICS 87.040)

CAN/CGSB-1.100-99

Peinture-émulsion mate d'intérieur (ICS 87.040)

CAN/CGSB-1.104-M91

Peinture-émail semi-brillante aux résines alkydes séchant à l'air ambiant et au four (ICS 87.040)

CAN/CGSB-1.105-M91

Peinture pour couche primaire à séchage rapide (ICS 87.040)

CAN/CGSB-1.114-M91

Peinture-émail mate à séchage rapide (ICS 87.040)

CAN/CGSB-1.118-95

Peinture de finition mate d'intérieur aux résines alkydes (ICS 87.040)

CAN/CGSB-1.119-2000

Peinture-émulsion d'impression d'intérieur (ICS 87.040)

CAN/CGSB-1.122-99

Peinture pour couche primaire, aux résines vinyliques, anticorrosion (ICS 87.040)

CAN/CGSB-1.132-M90

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

CAN/CGSB-1.135-99

Peinture-émail mate aux résines alkydes pour équipement (ICS 87.040)

CAN/CGSB-1.138-97

Peinture-émulsion (latex) mate, d'extérieur (ICS 87.040)

CAN/CGSB-1.143-98

Peinture-émail aux résines silicones-alkydes résistante à la chaleur (ICS 87.040)

CAN/CGSB-1.145-97

Solvent-Based Pigmented Stain
(ICS 87.040)

CAN/CGSB-1.146-99

Cold Curing, Gloss Epoxy Coating
(ICS 87.040)

CAN/CGSB-1.150-M91

Clear Lacquer for Wood Furniture
(ICS 87.040)

CAN/CGSB-1.153-2000

High-Build, Gloss Epoxy Coating
(ICS 87.040)

CAN/CGSB-1.154-M89

Latex Type Paint for Concrete Floors
(ICS 87.040)

CAN/CGSB-1.158-M89

Cellulose Nitrate Primer, Modified Alkyd
Type (ICS 87.040)

CAN/CGSB-1.159-92

Acrylic Cellulose Nitrate Gloss Lacquer
(ICS 87.040)

CAN/CGSB-1.160-93

Low Gloss Acrylic Cellulose Nitrate
Lacquer (ICS 87.040)

CAN/CGSB-1.162-2004

Emulsion Coating for Stucco and Masonry
(ICS 87.040)

CAN/CGSB-1.165-2004

Cold-Curing Epoxy Primer (ICS 87.040)

CAN/CGSB-1.171-98

Inorganic Zinc Coating (ICS 87.040)

CAN/CGSB-1.175-97

Polyurethane Interior Coating (ICS 87.040)

CAN/CGSB-1.145-97

Teinture pigmentée à base de solvant
(ICS 87.040)

CAN/CGSB-1.146-99

Revêtement aux résines époxydiques,
durcissant à froid, brillant (ICS 87.040)

CAN/CGSB-1.150-M91

Vernis-laque pour meubles en bois
(ICS 87.040)

CAN/CGSB-1.153-2000

Revêtement par peinture aux résines
époxydiques, à pouvoir garnissant élevé,
brillant (ICS 87.040)

CAN/CGSB-1.154-M89

Peinture-émulsion (latex) pour sols en béton
(ICS 87.040)

CAN/CGSB-1.158-M89

Peinture-laque pour couche primaire, au
nitrate de cellulose et aux résines alkydes
modifiées (ICS 87.040)

CAN/CGSB-1.159-92

Produit-laque brillant à la résine acrylique et
au nitrate de cellulose (ICS 87.040)

CAN/CGSB-1.160-93

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

CAN/CGSB-1.162-2004

Revêtement de type émulsion pour stuc et
maçonnerie (ICS 87.040)

CAN/CGSB-1.165-2004

Peinture pour couche primaire aux résines
époxydiques, durcissant à froid
(ICS 87.040)

CAN/CGSB-1.171-98

Enduit au zinc minéral (ICS 87.040)

CAN/CGSB-1.175-97

Revêtement de polyuréthane d'intérieur
(ICS 87.040)

CAN/CGSB-1.176-2000

Interior Clear Moisture-Curing Polyurethane Coating (ICS 87.040)

CAN/CGSB-1.177-M91

Two-Component Polyurethane Coating, Resistant to Chalking and Yellowing (ICS 87.040)

1-GP-180Ma (Feb 1996)

Coating, Polyurethane, Two-Package, General Purpose (ICS 87.040)

CAN/CGSB-1.181-99

Ready-Mixed Organic Zinc-Rich Coating (ICS 87.040)

CAN/CGSB-1.183-99

Zinc-Rich Epoxy Coating (ICS 87.040)

CAN/CGSB-1.184-98

Coal Tar-Epoxy Coating (ICS 87.040)

CAN/CGSB-1.188-2004

Emulsion Filler for Masonry Block (ICS 87.040)

CAN/CGSB-1.189-2000

Exterior Alkyd Primer for Wood (ICS 87.040)

CAN/CGSB-1.190-M90

Sanding Type Primer Surfacer (ICS 87.040)

1-GP-191M (Apr 1980)

Enamel, Automotive Refinishing, Fast Drying, Gloss (ICS 87.040)

1-GP-192Ma (Feb 1985)

Deck Coating, Nonslip, Epoxy (ICS 87.040)

CAN/CGSB-1.176-2000

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

CAN/CGSB-1.177-M91

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

1-GP-180Ma (févr. 1996)

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

CAN/CGSB-1.181-99

Enduit riche en zinc, organique et préparé (ICS 87.040)

CAN/CGSB-1.183-99

Enduit aux résines époxydiques, riche en zinc (ICS 87.040)

CAN/CGSB-1.184-98

Revêtement à base de goudron de houille-résines époxydiques (ICS 87.040)

CAN/CGSB-1.188-2004

Apprêt-émulsion pour blocs de maçonnerie (ICS 87.040)

CAN/CGSB-1.189-2000

Peinture d'impression, d'extérieur, aux résines alkydes, pour le bois (ICS 87.040)

CAN/CGSB-1.190-M90

Peinture pour couche primaire surfaçante de type ponçable (ICS 87.040)

1-GP-191M (avr. 1980)

Peinture-émail brillante, à séchage rapide, pour le repeinturage des carrosseries de véhicules automobiles (ICS 87.040)

1-GP-192Ma (févr. 1985)

Revêtement de pont, antidérapant, aux résines époxydiques (ICS 87.040)

CAN/CGSB-1.193-99

High-Build Epoxy Marine Coating
(ICS 87.040)

CAN/CGSB-1.195-99

Interior Latex Semigloss Paint (ICS 87.040)

CAN/CGSB-1.198-2001

Cementitious Primer for Galvanized
Surfaces (ICS 87.040)

1-GP-200Ma (Jan 1985)

Deck Coating, Nonslip, Polyurethane
(ICS 87.040)

CAN/CGSB-1.202-2003

Interior Alkyd Low Gloss Enamel
(ICS 87.040)

CAN/CGSB-1.203-2003

Exterior Latex Wood Primer (ICS 87.040)

CAN/CGSB-1.204-98

Exterior Latex Pigmented Stain
(ICS 87.040)

CAN/CGSB-1.205-2003

Sealer for Application to Asbestos-Fibre
Releasing Materials (ICS 87.040)

CAN/CGSB-1.207-98

Low-Temperature Curing Epoxy Coating
(ICS 87.040)

CAN/CGSB-1.208-99

Marine Interior Water-Borne Gloss Enamel
(ICS 87.040)

CAN/CGSB-1.209-2003

Interior Latex Low Gloss Paint (ICS 87.040)

CAN/CGSB-1.210-2003

Quick-Drying Alkyd Primer for Structural
Steel (ICS 87.040)

CAN/CGSB-1.193-99

Revêtement aux résines époxydiques, à
pouvoir garnissant élevé, marin
(ICS 87.040)

CAN/CGSB-1.195-99

Peinture-émulsion semi-brillante d'intérieur
(ICS 87.040)

CAN/CGSB-1.198-2001

Peinture primaire additionnée de ciment,
pour surfaces galvanisées (ICS 87.040)

1-GP-200Ma (janv. 1985)

Revêtement de pont, antidérapant, aux
résines polyuréthannes (ICS 87.040)

CAN/CGSB-1.202-2003

Peinture-émail d'intérieur, aux résines
alkydes, peu brillante (ICS 87.040)

CAN/CGSB-1.203-2003

Peinture-émulsion (latex) d'impression
extérieure, pour bois (ICS 87.040)

CAN/CGSB-1.204-98

Teinture-émulsion pigmentée pour extérieur
(ICS 87.040)

CAN/CGSB-1.205-2003

Peinture d'obturation pour matériaux
renfermant des fibres d'amiante
(ICS 87.040)

CAN/CGSB-1.207-98

Revêtement aux résines époxydiques
durcissant à basse température
(ICS 87.040)

CAN/CGSB-1.208-99

Peinture-émail brillante en suspension
aqueuse, marine, d'intérieur (ICS 87.040)

CAN/CGSB-1.209-2003

Peinture-émulsion d'intérieur peu brillante
(ICS 87.040)

CAN/CGSB-1.210-2003

Peinture primaire aux résines alkydes à
séchage rapide pour acier de charpente
(ICS 87.040)

CAN/CGSB-1.211-95

Coating Systems for Marine Floating Navigational Aids (Buoys) (ICS 87.040)

CAN/CGSB-1.212-2004

Heavy-Metal-Free Marine Primer for Steel and Light-Alloy Surfaces (ICS 87.040)

CAN/CGSB-1.213-2004

Etch Primer (Pretreatment Coating or Tie Coat) for Steel and Aluminum (ICS 87.040)

CAN/CGSB-1.214-2004

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

CAN/CGSB-1.215-96

Two-Package Epoxy Blockfiller (ICS 87.040)

CAN/CGSB-1.216-97

Exterior Water-Borne Gloss Enamel (ICS 87.040)

CAN/CGSB-1.219-2001

Lead and Chromate-Free Waterborne Traffic Paint (ICS 87.040)

CAN/CGSB-1.220-2001

Lead and Chromate-Free Alkyd Traffic Paint (ICS 87.040)

CAN/CGSB-1.223-2004

Heavy-Metal-Free, Water-Borne Wash Primer-Tie Coat (ICS 87.040)

CAN/CGSB-1.300-2000

Applied Coating System of Semigloss Baked Finish for Metal Office Furniture (ICS 87.040)

CAN/CGSB-1.500-75

Methods for Test for Toxic Trace Elements in Protective Coatings (ICS 87.040)

CAN/CGSB-1.211-95

Systèmes de revêtement pour aides à la navigation flottantes (bouées) (ICS 87.040)

CAN/CGSB-1.212-2004

Peinture primaire sans métal lourd, marine, pour surfaces en acier et en alliage léger (ICS 87.040)

CAN/CGSB-1.213-2004

Peinture primaire réactive (enduit de traitement préliminaire ou couche de liaison) pour l'acier et l'aluminium (ICS 87.040)

CAN/CGSB-1.214-2004

Peinture primaire, sans métal lourd, en suspension aqueuse, marine, pour surfaces en acier et en alliage léger (ICS 87.040)

CAN/CGSB-1.215-96

Apprêt pour blocs aux résines époxydiques en deux constituants (ICS 87.040)

CAN/CGSB-1.216-97

Peinture-émail brillante d'extérieur en suspension aqueuse (ICS 87.040)

CAN/CGSB-1.219-2001

Peinture à l'eau de démarcation routière sans plomb ni chromate (ICS 87.040)

CAN/CGSB-1.220-2001

Peinture alkyde de démarcation routière sans plomb ni chromate (ICS 87.040)

CAN/CGSB-1.223-2004

Peinture primaire réactive – Couche de liaison, sans métal lourd, en suspension aqueuse (ICS 87.040)

CAN/CGSB-1.300-2000

Système de revêtement de finition semi-brillant, cuit au four, pour meubles métalliques de bureau (ICS 87.040)

CAN/CGSB-1.500-75

Méthodes d'essai des éléments toxiques à l'état de trace dans les revêtements protecteurs (ICS 87.040)

CAN/CGSB-1.501-M89

Method for Permeance of Coated
Wallboard (ICS 87.040)

CAN/CGSB-1.501-M89

Méthode de détermination de la perméance
des panneaux muraux revêtus (ICS 87.040)



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CAN/CGSB-1.202-2003

Supersedes CAN/CGSB-1.202-96

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Interior Alkyd Low Gloss Enamel

2003-10-15.

ICS 87.040

National Standard of Canada

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The principal objectives of the Council are to foster and promote voluntary standardization as a means of advancing the national economy, benefiting the health, safety and welfare of the public, assisting and protecting the consumer, facilitating domestic and international trade, and furthering international co-operation in the field of standards.

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Approval of a standard as a National Standard of Canada indicates that a standard conforms to the criteria and procedures established by the Standards Council of Canada. Approval does not refer to the technical content of the standard; this remains the continuing responsibility of the accredited standards-development organization.

Those who have a need to apply standards are encouraged to use National Standards of Canada whenever practicable. These standards are subject to periodic review; therefore, users are cautioned to obtain the latest edition from the organization preparing the standard.

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INTERIOR ALKYD LOW GLOSS ENAMEL

Prepared by the
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INTERIOR ALKYD LOW GLOSS ENAMEL

1. SCOPE

- 1.1 This standard applies to interior alkyd low gloss enamel intended for use as a topcoat on primed, sealed or previously painted nonporous interior walls and woodwork where good cleansability and stain resistance is needed.
- 1.2 The testing and evaluation of a product against this standard 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 standard has the responsibility to consult the appropriate authorities and to establish appropriate health and safety practices in conjunction with any applicable regulatory requirements prior to its use.

2. REFERENCED PUBLICATIONS

- 2.1 The following publications are referenced in this standard:
- 2.1.1 The Canadian General Standards Board (CGSB)
CAN/CGSB-1.4 — Petroleum Spirits Thinner
1-GP-71 — Methods of Testing Paints and Pigments
CAN/CGSB-1.100 — Interior Flat Latex Paint
CAN/CGSB-1.119 — Interior Latex Primer-Sealer.
- 2.1.2 Health Canada
Surface Coating Materials Regulations
Consumer Chemicals and Containers Regulations, 2001
Controlled Products Regulations (WHMIS)¹.
- 2.1.3 ASTM International
D 1210 — Standard Test Method for Fineness of Dispersion of Pigment-Vehicle Systems by Hegman-Type Gage
D 2486 — Standard Test Methods for Scrub Resistance of Wall Paints
E 1347 — Standard Test Method for Color and Color-Difference Measurement by Tristimulus (Filter) Colorimetry.
- 2.1.4 U.S. General Services Administration
Federal Standard
595B — Colours Used in Government Procurement.
- 2.2 A dated reference in this standard is to the issue specified. An undated reference in this standard is to the latest issue, unless otherwise specified by the authority applying this standard. The sources are given in the Notes section.

3. CLASSIFICATION

- 3.1 The enamel shall be supplied in one of two types as specified (par. 8.1):
Type 1 — Flat Enamel
Type 2 — Eggshell Enamel.

¹ WHMIS: Workplace Hazardous Materials Information System.

4. GENERAL REQUIREMENTS

- 4.1 The enamel shall consist of a suitable pigment mixture adequately dispersed in an alkyd resin vehicle together with the necessary thinners and driers.
- 4.2 The enamel, as supplied, shall be suitable for brushing, roller coating and spraying when reduced with thinner conforming to CAN/CGSB-1.4 in accordance with the manufacturer's instructions.
- 4.3 The enamel shall have good flowing and brushing properties and shall dry to a uniform colour and gloss without streaking, running or sagging.
- 4.4 The enamel shall not skin, thicken excessively or cake in the original unopened container for one year from the date of shipment when stored at temperatures not exceeding 40°C. At the end of this time it shall be readily mixed to a uniform condition by stirring and shall meet the requirements of applicability and appearance (par. 5.16).
- 4.5 **Colour** — The enamel shall be supplied in any of the low gloss colours of U.S. Federal Standard 595B or to an adequately defined commercial colour, as specified (par. 8.1).
- 4.6 **Toxic Elements** — This paint shall conform to the requirements of the *Surface Coating Materials Regulations*, the *Consumer Chemicals and Containers Regulations*, 2001, and the *Controlled Products Regulations* (WHMIS), for designated toxic elements.

5. DETAILED REQUIREMENTS

The enamel shall comply with the following detailed requirements when tested in accordance with the specified test methods:

		Test Method			
		Min.	Max.	CGSB 1-GP-71	ASTM
5.1	Flash point, Pensky-Martens closed cup, °C	35	—	3.1	—
5.2	Consistency, Krebs units	70	—	4.5	—
5.3	Drying time, dry hard, h	—	18	5, Method A	—
5.4	Gloss				
	Gloss units	—	—	13.2	—
	At 60°				
	Type 1	—	10		
	Type 2	10	25		
	Sheen units				
	At 85°				
	Type 1	—	25		
	Type 2	25	45		
5.5	Hiding power, m ² /L	8.5	—	14.1	—
5.6	Fineness of grind, Hegman	4	—	—	D 1210
5.7	Volatile matter, % by mass	—	45	17.1	—
5.8	Reflectance (white only), %	84	—	—	E 1347
5.9	Skinning Properties — The enamel shall be non-skinning when tested in accordance with CGSB standard 1-GP-71, Method 10.1.				
5.10	Sealing Properties — When the enamel is applied over sealed and unsealed areas of a Penopac chart, the difference in reflectance shall not be more than 7% of the reflectance of the sealed area when tested in accordance with par. 7.3.1.				

- 5.11 **Stain Resistance** — On exposure to a K&N ink solution and a subsequent rinse, the percentage reflectance change shall not exceed 10 when measured with a suitable reflectometer in accordance with CGSB standard 1-GP-71, Method 114.3.
- 5.12 **Flexibility** — The dried film after accelerated aging shall show no cracking or peeling when subjected to the bending test using a 12.7 mm mandrel in accordance with CGSB standard 1-GP-71, Method 119.1.
- 5.13 **Colour Retention (White Only)** — After exposure to ammonia fumes for 2 h, the colour change (ΔE) of the dried white film shall not be greater than 4.5 when tested in accordance with CGSB standard 1-GP-71, Method 120.2.
- 5.14 **Scrubability** — When scrubbed with a brush, using an aqueous solution containing 2% nonionic detergent and 1% sodium carbonate, the film that has dried 7 d shall withstand 1000 cycles in the washability machine (see par. 7.3.2). There shall not be more than a slight difference in colour (CGSB 1-GP-71, Method 143.1, rating #6), between the scrubbed and unscrubbed portions when the film is tested in accordance with CGSB standard 1-GP-71, Method 125.1.
- 5.15 **Dilution Stability** — When reduced for spraying with a thinner conforming to CAN/CGSB-1.4 as specified by the manufacturer, the enamel shall show no curdling, precipitation or separation after standing 6 h (normal pigment settling shall be disregarded). The dry film shall show no streaking, mottling, seeding or other surface irregularities when flowed on the glass, immediately on reduction and after the specified period when tested in accordance with CGSB standard 1-GP-71, Method 45.1.
- 5.16 **Applicability and Appearance** — When tested in accordance with par. 7.3.3 there should be no runs, sags or coarse particles. When viewed from 1.5 m, there should be no craters or bubbles in the dried film. The finish shall be uniform in texture, gloss and colour, and the black "X" should not be discernible.

6. PREPARATION FOR DELIVERY

- 6.1 Unless otherwise specified (par. 8.1), preparation for delivery shall conform to normal commercial practice.
- 6.2 **Labelling** — In addition to complying with the labelling requirements of any relevant Acts or Regulations, each container shall be suitably labelled to show the following information:
- Name and type of material
 - Standard number: CAN/CGSB-1.202-2003
 - Colour and number:
 - Manufacturer's name and address
 - Manufacturer's batch number
 - Manufacturer's code number
 - Date of manufacture
 - Thinning instructions for spraying using a thinner conforming to CAN/CGSB-1.4.

7. INSPECTION

- 7.1 **Sampling** — Sampling shall be carried out in accordance with CGSB standard 1-GP-71, Method 1.1.
- 7.2 The procedures for rating the effects of change in CGSB standard 1-GP-71, Method 143.1 shall be used, as applicable, for evaluating performance.
- 7.3 **Testing**
- 7.3.1 **Sealing Properties (Self-Sealing)** — Tint the enamel under test with lamp black, in oil or alkyd, to a reflectance of 35 to 40%, as measured in accordance with ASTM E 1347. Apply the tinted finish to a Penopac chart, Form 1A, with an applicator to a dry film thickness of $25 \pm 3 \mu\text{m}$. During the application, hold the charts flat by means of a vacuum plate. After drying 72 h measure the reflectance of the sealed and unsealed areas of the chart in accordance with ASTM E 1347. Record the difference in reflectance and calculate as a percentage of the reflectance over the sealed area.

- 7.3.2 **Scrubbability** — Use unprimed Leneta panels, form P-121-10N held in place on a glass plate in the washability machine as described in ASTM D 2486. Twenty-four hours before the test, protect both ends of the test panel for a distance of 110 mm with a coat of an appropriate varnish.
- 7.3.3 **Applicability and Appearance** — Mount a 1.2 × 1.2 m panel of gypsum plasterboard vertically. Using a roller or spray application to eliminate brush marks, apply a coat of primer-sealer (CAN/CGSB-1.119) that has been tinted to about the colour Grey 36373 of U.S. Federal Standard 595B. After drying 2 h, brush on a coat of flat black latex paint (CAN/CGSB-1.100) to form an "X" from corner to corner, with arms approximately 150 mm wide, the edges staggered and feathered, and allow to dry 24 h. Wet out the paint onto a 190 mm roller having a nap length of 5 mm. Using the wetted roller, apply the paint to the entire face of the panel. Note the ease of rolling and the foaming characteristics. Allow the panel to dry 18 h. Apply a second coat of the paint by spray to the left half of the panel. Note the spraying characteristics. To the right half of the panel, brush a 100 mm wide band around the perimeter using a 75 mm wide brush. Note the brushing characteristics: Five minutes after completion of the brush coat, apply a coat by roller to the right half of the panel, overlapping the sprayed and brushed coats by approximately 50 mm. After drying 24 h, examine the panel.

8. NOTES

- 8.1 **Options** — The following options must be specified in the application of this standard:
- Type of enamel (par. 3.1)
 - Colour (par. 4.5)
 - Preparation for delivery if other than as specified (par. 6.1).
- 8.2 **Recommended Practice**
- 8.2.1 For ceilings requiring a flat finish, a finish conforming to CAN/CGSB-1.118 is the preferred material. Normally, this enamel is applied by brush or roller. When spray application is required, the manufacturer's instructions for thinning should be followed implicitly.
- 8.2.2 **Preparation of Surfaces** — Walls and woodwork should be dry, clean and free from dirt, grease and loose paint. The enamel should not be used over glue size, kalsomine or wallpaper; these should be removed. Surfaces that have been sanded, patched or repaired should be spot-primed with the finish or a primer-sealer before finishing. Shellac should not be used for spot-priming over patched areas.
- 8.2.3 **New Surfaces (Unpainted)** — New surfaces should first be primed with the following:
Wood: Undercoater conforming to CAN/CGSB-1.38 or CAN/CGSB-1.119, Walls (dry and alkali-free): Primer-Sealer conforming to CAN/CGSB-1.119.
- 8.2.4 **Old Surfaces (Previously Painted)** — One coat of enamel conforming to CAN/CGSB-1.202 is generally sufficient unless a considerable change in colour or porosity is involved. If a second coat is needed, allow overnight drying between coats. If exceptional porosity is encountered, treat as in par. 8.2.3.
- 8.3 **Related Publications**
- 8.3.1 Canadian General Standards Board (CGSB)
CAN/CGSB-1.38 — Interior Enamel Undercoater
CAN/CGSB-1.118 — Interior Alkyd Flat Finish.
- 8.4 **Sources of Referenced Publications**
- 8.4.1 The publications referred to in par. 2.1.1, and 8.3 may be obtained from the Canadian General Standards Board, Sales Centre, Gatineau, Canada K1A 1G6. Telephone (819) 956-0425 or 1-800-665-2472. Fax (819) 956-5644.
- 8.4.2 The publication referred to in par. 2.1.2 may be obtained from Health Canada, Consumer Product Safety Bureau, MacDonald Building, 4th Floor, 123 Slater Street, Ottawa, Ontario K1A 0K9. Telephone (613) 954-0104. Fax (613) 952-1994.



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- 8.4.3 The publications referred to in par. 2.1.3 may be obtained from ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, U.S.A., telephone (610) 832-9585, fax (610) 832-9555; or from IHS Canada, 1 Antares Drive, Suite 200, Ottawa, Ontario K2E 8C4. Telephone (613) 237-4250 or 1-800-267-8220. Fax (613) 237-4251.
- 8.4.4 The publication referred to in par 2.1.4 may be obtained from IHS Canada, 1 Antares Drive, Suite 200, Ottawa, Ontario K2E 8C4. Telephone (613) 237-4250 or 1-800-267-8220. Fax (613) 237-4251.
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