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Canadian General Standards Board Office des normes
générales du Canada

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These CGSB standards and National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

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Le Conseil canadien des normes exige que les organismes accrédités d'élaboration de normes, tel que l'ONGC, effectue régulièrement un examen des normes consensuelles afin de déterminer s'il y a lieu d'en renouveler l'approbation, de les réviser ou de les retirer. Le cycle d'examen d'une norme est généralement de cinq ans à partir de la date de publication de la dernière édition de celle-ci.

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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)

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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-1.208-99

Marine Interior Water-Borne Gloss Enamel

National Standard of Canada

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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MARINE INTERIOR WATER-BORNE GLOSS ENAMEL

Prepared by the
Canadian General Standards Board 

Approved by the
Standards Council of Canada 

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MARINE INTERIOR WATER-BORNE GLOSS ENAMEL

1. SCOPE

- 1.1 This standard applies to a water-borne enamel for use as an interior finish on primed or previously coated steel, aluminum and wood surfaces in ships and submarines.
- 1.2 This enamel may be used as a water-borne alternative to enamels conforming to CAN/CGSB-1.61.
- 1.3 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 Canadian General Standards Board (CGSB)
CAN/CGSB-1.38 — Interior Enamel Undercoater
1-GP-48 — Primer, Marine, for Steel
CAN/CGSB-1.61 — Exterior and Interior Marine Alkyd Enamel
1-GP-71 — Methods of Testing Paints and Pigments
CAN/CGSB-1.132 — Zinc Chromate Primer, Low Moisture Sensitivity
CAN/CGSB-1.183 — Zinc-Rich Epoxy Coating
CAN/CGSB-1.212 — Chromate and Lead Free Marine Primer for Steel and Light Alloy Surfaces
CAN/CGSB-1.213 — Etch Primer (Pretreatment Coating) for Steel and Aluminum.
- 2.1.2 Health Canada
Hazardous Products (Liquid Coating Materials) Regulations.
- 2.1.3 American Society for Testing and Materials (ASTM)
D 1210 — Standard Test Method for Fineness of Dispersion of Pigment-Vehicle Systems By Hegman-Type Gage
D 2486 — Standard Test Method for Scrub Resistance of Wall Paints
D 3359 — Standard Test Methods for Measuring Adhesion by Tape Test
D 3960 — Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.
- 2.1.4 U.S. General Services Administration
Federal Standard
595B — Colors Used in Government Procurement.
- 2.2 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 the standard. The sources are given in the Notes section.

3. GENERAL REQUIREMENTS

- 3.1 The enamel shall consist of a pigment or pigment mixture adequately dispersed in a suitable vehicle together with the necessary water thinner and water-miscible cosolvents.
- 3.2 The enamel, as supplied, shall be suitable for brushing and roller coating and shall be satisfactory for spraying when reduced with water in accordance with the manufacturer's instructions.
- 3.3 The enamel shall have good rolling and brushing properties and shall dry to a smooth uniform glossy appearance without wrinkling or sagging.
- 3.4 The enamel shall not skin, thicken or cake excessively in the original unopened container for one year from the date of manufacture when stored at temperatures between 5 and 40°C. At the end of this time it shall be capable of being readily mixed to a uniform condition by stirring and shall meet the requirements for drying time as specified in par. 4.3 and applicability and appearance as specified in par. 4.16. If packaged in metal containers, the container shall show no signs of corrosion or rust.
- 3.5 **Colour** — The colour shall conform to the U.S. Federal Standard 595B colour or to an adequately defined commercial colour as specified (par. 7.1).
- 3.6 **Toxic Elements** — The enamel shall be manufactured in accordance with the requirements of the *Hazardous Products (Liquid Coating Materials) Regulations* for designated toxic elements.

4. 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
4.1	Flash point, Pensky-Martens Closed Cup, °C	70	—	3.1	—
4.2	Consistency, Krebs units	70	—	4.5	—
4.3	Drying time, dry-hard, h	—	18	5	—
		Method A			
4.4	60° gloss, units	60	—	13.2	—
4.5	Hiding power ¹	—	—	14.1	—
4.6	Fineness of grind, Hegman units	6	—	—	D 1210
4.7	Volatile Organic Compound (VOC), g/L	—	250	—	D 3960 ²
4.8	Skinning Properties — The enamel shall be nonskinning when tested in accordance with CGSB standard 1-GP-71, Method 10.1.				
4.9	Flexibility — The dried enamel shall not crack or peel when subjected to the bending test at 23 ± 2°C using a 3.2 mm mandrel when tested in accordance with CGSB standard 1-GP-71, Method 119.5 and par. 6.2.1.				
4.10	Scrubbability — A film of the enamel, dried for 14 d, shall withstand 1000 cycles in the washability machine without showing more than a trace of colour change and only slight surface markings due to the brush when tested				

¹ The hiding power chart shall not be visible under the dry paint film that has been applied at a dry film thickness of 40 µm (for white only).

² Use the calculation in par. 10.2.1 of ASTM D 3960.

in accordance with CGSB standard 1-GP-71, Method 125.3³ and par. 6.2.2 and 6.2.2.1. The gloss of the washed film shall not fall below 50 units when measured immediately after scrubbing.

- 4.11 **Behaviour Toward Applied Films** — One coat of the enamel, when applied to a steel surface (a test panel) primed 24 h previously with a primer conforming to CGSB standard 1-GP-48 or CAN/CGSB-1.212, shall not cause lifting or appreciable softening of the primer. There also shall not be any crawling or other film deficiencies of the topcoat. The preceding observations shall take place immediately after application of the enamel and 24 h thereafter when tested in accordance with CGSB standard 1-GP-71, Method 131.2 and as outlined in par. 6.2.2 and 6.2.2.1.
- 4.12 **Adhesion** — When subjected to the cross-cut adhesion test, the adhesion rating of one coat of the enamel which has been dried for 7 d under standard conditions shall be at least 4B in the classification rating of Figure 1 of ASTM D 3359, Method B. The enamel shall be applied over steel panels primed in accordance with CGSB standard 1-GP-71, Method 98.4 and as outlined in par. 6.2.2 and 6.2.2.1.
- 4.13 **Scratch Resistance** — The dried enamel film which has been dried for 14 d shall withstand the scratch test under a load of 900 g without exposing the metal through the scratch in the film when tested in accordance with CGSB standard 1-GP-71, Method 116.5 and par. 6.2.1.
- 4.14 **Colour Retention, White Enamel** — After exposure to ammonia fumes for 2 h, the colour change (ΔE) of the dried enamel film shall be not greater than 4.5 when tested in accordance with CGSB standard 1-GP-71, Method 120.2 and par. 6.2.1.
- 4.15 **Flame Resistance** — When three panels are subjected to the two foot tunnel test for $5 \text{ min} \pm 2 \text{ s}$, the film comprising two coats shall exhibit no dripping, flashing, flaming or burning. Immediately after the flame is extinguished, the film shall show softening only in the flame impingement area with no liquification or afterglow. After cooling to room temperature, the panels shall not exhibit any blistering or charring, and the length of permanent discolouration shall not exceed 130 mm when tested in accordance with CGSB standard 1-GP-71, Method 118.7 and par. 6.2.1.
- 4.16 **Applicability and Appearance**
- 4.16.1 **Brush Application** — When applied by brush to a panel coated with a primer conforming to CGSB standard 1-GP-48 or CAN/CGSB-1.212, the enamel shall show good brushing and lapping properties with no sagging. When dry, the enamel shall be free of runs, sags, coarse particles and shall not show more than slight brush marks. It shall appear uniform in texture, colour and gloss. Two coats, with 18 h drying between coats, shall provide complete uniform hiding when tested in accordance with CGSB standard 1-GP-71, Method 134.3.
- 4.16.2 **Roller Application** — When applied by roller to a panel primed with a primer conforming to CGSB standard 1-GP-48 or CAN/CGSB-1.212, foaming during application shall be minimal. If any foam is evident, there shall be no signs of craters or bubbles in the dry film and no colour differences between the brushed and roller-coated areas of the panel. The finish shall be uniform in texture, gloss and colour and shall provide good hiding in two coats when tested in accordance with CGSB standard 1-GP-71, Method 134.3.

5. PREPARATION FOR DELIVERY

- 5.1 Unless otherwise specified (par. 7.1), normal commercial packaging, packing and marking shall be acceptable.
- 5.2 **Labelling** — In addition to the labelling requirements of any relevant Acts or Regulations, each container shall be suitably labelled to show the following information:
- Name of material
- Standard number: CAN/CGSB-1.208-99
- Manufacturer's name and address
- Manufacturer's batch number
- Manufacturer's code number (if applicable)

³ Except use Leneta panels, form P-121-10N, held in place in the washability machine as described in ASTM D 2486.

Date of manufacture
NATO stock number (if applicable)
Thinning instructions for spraying
Do not freeze.

6. INSPECTION

6.1 **Sampling** — Sampling shall be carried out in accordance with CGSB standard 1-GP-71, Method 1.1.

6.2 Testing

6.2.1 **Panel Preparation for Detailed Requirements in par. 4.9, 4.13, 4.14 and 4.15** — To the specified panel apply the enamel as specified except that the dry film thickness per coat shall be $40 \pm 5 \mu\text{m}$. When recoating is required, allow 18 h drying between coats.

6.2.2 **Panel Preparation for Detailed Requirements in par. 4.10, 4.11 and 4.12** — Apply the enamel as specified on panels previously primed in accordance with CGSB standard 1-GP-48 or CAN/CGSB-1.212 except that the dry film thickness per coat shall be $40 \pm 5 \mu\text{m}$.

6.2.2.1 Prepare a duplicate set of panels in accordance with par. 6.2.2. Before applying the enamel under test, allow 18 h drying and apply one coat of enamel conforming to CAN/CGSB-1.61 at a dry film thickness of $30 \pm 4 \mu\text{m}$. Allow 18 h drying and apply the enamel under test. All panels shall be air dried for 14 d conforming to CGSB standard 1-GP-71, Method 103.1 except the panels used for the behaviour toward applied films requirements specified in par. 4.11.

7. NOTES

7.1 **Options** — The following options must be specified in the application of this standard:

a. Colour required (par. 3.5)

b. Packaging, packing and marking details, if normal commercial practice is not suitable (par. 5.1).

7.2 Recommended Practice

7.2.1 The enamel may be applied as a finish coat over steel primed with a primer conforming to CGSB standard 1-GP-48, CAN/CGSB-1.212 or CAN/CGSB-1.213, over aluminum primed with a zinc chromate primer conforming to CAN/CGSB-1.132, and over wood primed with an undercoater conforming to CAN/CGSB-1.38. It may also be used over a zinc-rich epoxy coating conforming to CAN/CGSB-1.183, providing a tie-coat recommended by the manufacturer is used.

7.2.2 The enamel may be applied over painted surfaces (CAN/CGSB-1.61) provided that all surfaces are washed or degreased with TSP or other suitable cleaners.

7.3 Sources of Referenced Publications

7.3.1 The publications referred to in par. 2.1.1 may be obtained from the Canadian General Standards Board, Sales Centre, Ottawa, Canada K1A 1G6. Telephone (819) 956-0425 or 1-800-665-CGSB (Canada only). Fax (819) 956-5644.

7.3.2 The publication referred to in par. 2.1.2 may be obtained from Health Canada, Product Safety Bureau, Jeanne Mance Building, 12th floor, Tunney's Pasture, Ottawa, Canada K1A 0K9. Telephone (613) 957-4467. Fax (613) 952-3039.

7.3.3 The publication referred to in par. 2.1.3 may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, U.S.A. or from the Global Info Centre Canada, 240 Catherine Street, Suite 305, Ottawa, Ontario K2P 2G8. Telephone (613) 237-4250 or (800) 854-7179. Fax (613) 237-4251.

7.3.4 The publication referred to in par. 2.1.4 may be obtained from the Global Info Centre Canada, 240 Catherine Street, Suite 305, Ottawa, Ontario K2P 2G8. Telephone (613) 237-4250 or (800) 854-7179. Fax (613) 237-4251.

Withdrawn/Retirée