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These CGSB standards and National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

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.

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)

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'amiant
(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)



Canadian
General
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Board

CAN/CGSB-1.138-97

Supersedes CAN/CGSB-1.138-93

Exterior Latex Flat Paint

Withdrawn/Retirée



National Standard of Canada

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Although the intended primary application of this standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

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. CGSB neither assumes nor accepts any responsibility for any injury or damage that may occur during or as the result of tests, wherever performed.

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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.

A National Standard of Canada is a standard which has been approved by the Standards Council of Canada and one which reflects a reasonable agreement among the views of a number of capable individuals whose collective interests provide, to the greatest practicable extent, a balance of representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject in hand. It normally is a standard that is capable of making a significant and timely contribution to the national interest.

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.

The responsibility for approving National Standards of Canada rests with the:

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- on the Web — <http://w3.pwgsc.gc.ca/cgsb>

EXTERIOR LATEX FLAT PAINT

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EXTERIOR LATEX FLAT PAINT

1. SCOPE

- 1.1 This standard applies to latex paint for exterior use on primed wood and on masonry surfaces including concrete, brick, cinder, stucco, concrete block and unglazed tile.
- 1.2 It may be used on unglazed asbestos-cement shingles and siding¹; however as most asbestos-siding is treated with waterproofing material, at least one year shall elapse before coating with this paint.
- 1.3 Although paint to this standard is not intended for use on metal, it may be used on incidental metal if such surfaces are suitably precoated with primer.
- 1.4 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)
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
1-GP-189 — Primer, Alkyd, Wood, Exterior
CAN/CGSB-1.203 — Exterior Latex Wood Primer.
- 2.1.2 Health Canada
Hazardous Products (Liquid Coating Materials) Regulations.
- 2.1.3 American Society for Testing and Materials (ASTM)
D 1210 — Test Method for Fineness of Dispersion of Pigment — Vehicle Systems by Hegman-Type Gage
D 2486 — Test Method for Scrub Resistance of Wall Paints
D 3960 — Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings
D 4587 — Practice for Conducting Tests on Paint and Related Coatings and Materials Using a Fluorescent UV-Condensation Light- and Water-Exposure Apparatus.
- 2.1.4 U.S. General Services Administration
Federal Standards
595B — Colors Used in Government Procurement.

¹Magnesite stucco does not provide a suitable surface for application of this type of paint.

- 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 this standard. The sources are given in the Notes section.

3. GENERAL REQUIREMENTS

- 3.1 The paint shall consist of suitable pigment mixtures adequately dispersed in a latex vehicle.
- 3.2 The paint, as supplied, shall be suitable for application by brush and/or roller and shall be satisfactory for spraying when reduced with water in accordance with the manufacturer's instructions.
- 3.3 The paint shall not skin, thicken excessively or cake in the original unopened container for one year from date of shipment 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 applicability and appearance (par. 4.13). The container shall not show signs of deterioration or rust, except around the rim where some signs of rust are permissible.
- 3.4 **Colour** — When specified, the colour of the coating shall conform to the U.S. Federal Standard 595B colour and number or to an adequately defined commercial colour, as specified (par. 7.1).
- 3.5 **Toxic Elements** — The paint shall be manufactured in accordance with the requirements of the Hazardous Products (Liquid Coating Materials) Regulations in respect to designated toxic elements.

4. DETAILED REQUIREMENTS

The paint 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	Consistency, Krebs units	70	—	4.5	—
4.2	Drying time, dry hard, h	—	2	5	—
		Method A			
4.3	60° gloss, units	—	20	13.1	—
4.4	Fineness of grind, Hegman	2	—	—	D 1210
4.5	Volatile Organic Compound (VOC), g/L	—	250	—	D 3960
4.6	Hiding Power — When tested in accordance with CGSB standard 1-GP-71, Method 14.1, the black-and-white or black-and-grey squares of the hiding power chart shall not be visible under the dry paint film that has been applied at a wet film thickness of 125 µm for all colours, except white and bright clear yellow, orange, red and blue accent colours for which 150 µm is used.				
4.7	Colour Uniformity — There shall be no difference in colour when one area of the film is rubbed until it begins to set and the remainder is allowed to dry untouched when tested in accordance with CGSB standard 1-GP-71, Method 12.8.				
4.8	Accelerated Weathering Resistance — There shall not be more than No. 6 ASTM chalking when examined in accordance with CGSB standard 1-GP-71, method 122.1 and par. 6.2.1. There shall be no checking, cracking or appreciable colour change when tested in accordance with par. 6.2.1. The preparation of panels shall be in accordance with par. 6.2.1.				
4.9	Alkali Resistance — Two coats of paint that have dried for 48 h shall withstand the action of 0.1 mol/L sodium hydroxide solution for 1 h without showing blistering, wrinkling or lifting when examined immediately. After subsequent drying for 30 min there shall be no change from the original colour when tested in accordance with CGSB standard 1-GP-71, Method 106.3.				

- 4.10 **Shower Resistance** — When exposed to a continuous water spray for 5 min, the material, which has dried for 2 h, shall show no evidence of being washed off the panel when tested in accordance with CGSB standard 1-GP-71, Method 110.11.
- 4.11 **Flexibility** — The dried paint film shall show no cracking or peeling when subjected to the bending test at 0°C using a 6.4 mm mandrel in accordance with CGSB standard 1-GP-71, Method 119.4.
- 4.12 **Scrubbability** — A paint film dried for 7 d shall withstand 2000 cycles of scrubbing without exposing the contrasting colour of the undercoat to a total length of more than 13 mm in the direction of the stroke when tested in accordance with CGSB standard 1-GP-71, Method 125.2. Use Leneta panels, form P-121-10N, held in place in the washability machine as described in ASTM D 2486.
- 4.13 **Applicability and Appearance**
- 4.13.1 **Method²** — Mount vertically a 1.2 × 1.2 m panel of gypsum plasterboard. Using a roller or spray application to eliminate brush marks, apply a coat of CAN/CGSB-1.119 Primer-Sealer, that has been tinted to about the colour Grey 36373 of U.S. Federal Standard Colors 595B. After drying 2 h, brush on a coat of CAN/CGSB-1.100 flat black latex paint 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 material under test onto a 190 mm roller having a nap length of 6 mm. Using the wetted roller, apply the material to the entire face of the panel. Note the ease of rolling and the foaming characteristics. Allow to dry 18 h. Apply a second coat of the test material 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. 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. There should be no evidence of runs, sags or coarse particles. When viewed from 1.5 m, there should be no sign of craters or bubbles in the dried film. The finish shall be uniform in texture, gloss and colour. The black "X" should not be discernible.
- 4.14 **Sensitivity to Water** — When dried for 2 h, then exposed to a fog condition for 1 h, the film shall not show any blistering, loss of adhesion or any evidence of disintegration when tested in accordance with par. 6.2.2.

5. PREPARATION FOR DELIVERY

- 5.1 Unless otherwise specified (par. 7.1), preparation for delivery shall conform to normal commercial practice.
- 5.2 **Labelling** — In addition to complying with the labelling requirements of any relevant Acts and Regulations, each container shall be suitably labelled to show the following information:

Name of material

Standard number: CAN/CGSB-1.138-97

U.S. Federal Standard 595B colour and number or commercial colour identification, as applicable

Manufacturer's name and address

Manufacturer's batch number

Manufacturer's code number (if applicable)

Date of manufacture

Thinning instructions (with water) for spraying and for application by brush and roller on masonry surfaces.

CAUTIONARY NOTE to indicate that the material shall be kept from freezing.

6. INSPECTION

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

²This method is a modified version of CGSB standard 1-GP-71, method 134.7.

6.2 Testing

- 6.2.1 **Accelerated Weathering Resistance** — Apply two coats of the paint under test to wooden panels (see CGSB standard, 1-GP-71, Methods 122.4 except that primers shall conform to CGSB standard 1-GP-189 and to CAN/CGSB-1.203). Panels having each primer shall be topcoated and these same panels shall pass the requirements of this test. Conduct the test in accordance with ASTM D 4587 and CGSB standard 1-GP-71, Method 122.4 using UVA 340 lamps. The operating cycle shall be 4 h UV at 60°C followed by 4 h of condensation at 50°C for 15 d.
- 6.2.2 **Sensitivity To Water** — Sand the white pine panels 125 × 225 × 20 mm and apply by brush to all sides (CGSB 1-GP-71, Method 97.2) one coat of CGSB standard 1-GP-189 or CAN/CGSB-1.203 primer and allow to dry for 7 d (CGSB 1-GP-71, Method 130.1). Apply one coat of the material under test to the surface of the primed panels and allow to dry for 2 h (CGSB 1-GP-71, Method 103.1). Expose the panels at 23 ± 2°C at approximately 60° to the horizontal for 1 h to fog created by 6 fog nozzles (Monarch H-261, No. 3.00 size, 120° spray angle) placed at 450 mm centres, to form a rectangle 1.2 m above the panels, and mounted on a 0.9 × 1.2 m copper frame. The nozzles are connected to a waterline operating at 400 to 430 kPa to produce a steady light drizzle. Each nozzle shall deliver 5.7 ± 0.5 L/h of water. Immediately after exposure remove the panels and examine for blistering, loss of adhesion or any other evidence of deterioration.

7. NOTES

- 7.1 **Options** — The following options must be specified in the application of this standard:
- a. Colour of paint (par. 3.4)
 - b. Preparation for delivery, if normal commercial practice is not suitable (par. 5.1).
- 7.2 **Recommended Practice**
- 7.2.1 This paint shall not be applied at temperatures lower than 10°C. Because bright, clean accent colours (like yellows, oranges, reds and blues) may not have adequate hiding, multiple coats and special techniques may be required to obtain a satisfactory finish.
- 7.2.2 **Unpainted Masonry Surfaces** — This paint may be used on newly constructed masonry surfaces after a minimum of 30 d drying time and/or when moisture content is less than 12%. Masonry surfaces that are firm and free from loose scale, dirt and efflorescence do not require sizing or priming prior to application of the paint. All loose scale and dirt shall be removed prior to paint application. When atmospheric conditions are very hot and dry, it may be advantageous to slightly dampen the surface before painting, especially if it is porous.
- 7.2.3 **Painted Masonry Surfaces** — The surfaces must be clean, firm and free from dirt and loose scale. This paint must not be used without prior treatment on surfaces that are chalking or powdering. If the surface has one or two coats of paint that are chalking moderately, it can be treated (by brushing) with an alkyd sealer conforming to CAN/CGSB-1.102. Where several coats of cement paint or heavy chalking of the surface are involved, good results can be obtained only by sandblasting.
- 7.2.4 **Unpainted Wooden Surfaces** — This paint may be used on previously unpainted wooden surfaces after they have been primed with a coat of CGSB standard 1-GP-189 or CAN/CGSB-1.203. Two coats of the paint shall be applied with a 24 h drying time between coats. For best results, the primer should be topcoated after 24 h but before 72 h after application.
- 7.2.5 **Painted Wooden Surfaces** — The surfaces must be clean, firm and free from dirt and loose scale. The paint in all blistered, cracked and flaked areas should be completely removed by wire brushing or scraping and then spot primed with primer conforming to CAN/CGSB-1.203. If the previous finish has failed and a blister-resistant system is required, all the old paint shall be removed and the surface shall be coated as prescribed in par. 7.2.4. If the previous surface is in good condition but is chalking excessively, a coat of primer conforming to CGSB standard 1-GP-189 or CAN/CGSB-1.203 shall be applied first. Apply CAN/CGSB-1.138 over the whole area.
- 7.2.6 **Metal Surfaces** — When applied to steel surfaces, the primer shall conform to CAN/CGSB-1.40, CAN/CGSB-1.210 or CAN/CGSB-1.212. For non-ferrous metals, apply a primer conforming to CAN/CGSB-1.121, CAN/CGSB-1.212 or CAN/CGSB-1.213.

- 7.2.7 For specific geographical locations, fungicides may be required as agreed by the interested parties.
- 7.2.8 For details in respect to surface preparation and other available systems, refer to CAN/CGSB-85.100.
- 7.3 **Storage** — This paint is best stored at temperatures between 5 and 30°C and shall not be allowed to attain temperatures over 50°C or be subjected to freezing. The paint that has been frozen once or twice shall be checked before use.
- 7.4 **Related Publications**
- 7.4.1 Canadian General Standards Board (CGSB)
- CAN/CGSB-1.40 — Anticorrosion Structural Steel Alkyd Primer
- CAN/CGSB-1.102 — Clear Alkyd Type Sealer
- CAN/CGSB-1.121 — Vinyl Pretreatment Coating for Metals (Vinyl Wash Primer)
- CAN/CGSB-1.210 — Quick Drying Alkyd Primer for Structural Steel
- 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
- CAN/CGSB-85.100 — Painting.
- 7.5 **Sources of Referenced Publications**
- 7.5.1 The publications referred to in par. 2.1.1 and 7.4.1 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.
- 7.5.2 The publication referred to in par. 2.1.2 may be obtained from Health Canada, Product Safety Bureau, Statistics Canada, Main Building, Room 1000, Tunney's Pasture, Ottawa, Ontario K1A 0K9. Telephone (613) 957-9545. Fax (613) 952-1994.
- 7.5.3 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 Standards Council of Canada, Standards Sales Branch, 45 O'Connor Street, Suite 1200, Ottawa, Ontario K1P 6N7.
- 7.5.4 The publication referred to in par. 2.1.4 may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.
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