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Standards Board Office des normes
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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These CGSB standards and National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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 polyuréthanes (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
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CAN/CGSB-1.122-99

Supersedes CAN/CGSB-1.122-M91

Anticorrosive Vinyl Primer

National Standard of Canada

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.

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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. The 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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ANTICORROSIVE VINYL PRIMER

Prepared by the
Canadian General Standards Board 

Approved by the
Standards Council of Canada 

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CANADIAN GENERAL STANDARDS BOARD

ANTICORROSIVE VINYL PRIMER

SCOPE

- 1 This standard applies to an anticorrosive vinyl primer for use on pretreated metal under corrosive conditions.
- 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.

REFERENCED PUBLICATIONS

- 1 The following publications are referenced in this standard:
- 1.1 Canadian General Standards Board (CGSB)
1-GP-71 — Methods of Testing Paints and Pigments
CAN/CGSB-1.123 — Vinyl Antifouling Paint for Ships's Bottoms
CAN/CGSB-1.124 — Thinner for Vinyl Coatings
CAN/CGSB-1.213 — Etch Primer (Pretreatment Coating) for Steel and Aluminum
CAN/CGSB-8.1 — Sieves, Testing, Woven Wire, Inch Series.
- 1.2 Health Canada
Hazardous Products (Liquid Coating Materials Regulations) Act.
- 1.3 American Society for Testing and Materials (ASTM)
D 185 — Standard Test Methods for Coarse Particles in Pigments, Pastes and Paints
D 1396 — Standard Test Methods for Chemical Analysis of Poly(Vinyl Butyral).
- 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. CLASSIFICATION

- 3.1 The primer shall be supplied in one of the following types, as specified (par. 8.1):
- 3.1.1 *Types*
Type 1 — Vinyl-Aluminum, for use on ferrous and non-ferrous metals
Type 2 — High Build, Vinyl-Aluminum, for use over Type 1 only, by spray applications only.

4. GENERAL REQUIREMENTS

- 4.1 The primer shall consist of an aluminum pigment adequately milled in a vehicle composed of polyvinyl copolymer resin, together with the necessary thinners as outlined in Appendix A. Dioctyl phthalate shall be used as plasticizer¹.
- 4.2 The Type 1 primer shall be satisfactory for spraying when reduced with a vinyl thinner conforming to CAN/CGSB-1.124 in accordance with the manufacturer's instructions. The Type 2 primer shall be satisfactory for spraying when maintained at a pot temperature of 65°C.
- 4.3 The primer shall dry to a uniform semigloss appearance without wrinkling or other defects, and shall be suitable for recoating with a vinyl antifouling paint conforming to CAN/CGSB-1.123.
- 4.4 The primer shall not thicken excessively or cake in the original unopened container for two years 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 uniform condition by stirring and shall meet the requirements for behaviour towards undercoats and self-lifting conforming to par. 5.9.
- 4.5 The pigment shall consist of good quality aluminum or aluminum paste.
- 4.6 **Toxic Elements** — The primer shall be manufactured in accordance with the requirements of the *Hazardous Products (Liquid Coating Materials Regulations) Act* for designated toxic elements.

5. DETAILED REQUIREMENTS

The primer 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	6	—	3.1	—
5.2	Consistency, Krebs units	60	80	4.5	—
5.3	Coarse particles, % retained on 45 µm (No. 325) sieve ²	—	1.0	—	D 185
5.4	Volatile matter, % by mass of primer	—	—	17.1	—
	Type 1	—	73	—	—
	Type 2	—	68	—	—
5.5	Non-volatile vehicle, % by mass of primer	—	—	19.1	—
	Type 1	19.5	20.5	—	—
	Type 2	24	25	—	—
5.6	Pigment content, % by mass of primer	—	—	21.1	—
	Type 1	7.5	—	—	—
	Type 2	20	—	—	—

¹ The presence of dioctyl phthalate may be determined at the discretion of the testing authority. This requirement does not preclude the use of small amounts of dibutyl phthalate as a pigment dispersant.

² See CAN/CGSB-8.1.

Vinyl Resin Content — The copolymer resin used in the primer and supplied with the sample (par. 7.1) shall contain 88.5 to 91.5% by mass of vinyl chloride and 5.3 to 7.0% of vinyl alcohol when tested in accordance with CGSB standard 1-GP-71, Method 82.3 and ASTM D 1396.

Drying Time

3.1 **Type 1** — When applied by spray on steel panels to produce a dry film $30 \pm 3 \mu\text{m}$ thick, the primer shall dry hard in 1 h when tested in accordance with CGSB standard 1-GP-71, Method 5.1.

3.2 **Type 2** — When applied by hot spray (65°C) on steel panels to produce a dry film $100 \pm 10 \mu\text{m}$ thick, the primer shall dry hard in 1 h.

Behaviour Towards Undercoats and Self-Lifting

9.1 When applied to steel coated 1 h previously with vinyl pretreatment coating conforming to CAN/CGSB-1.213, one coat of primer shall not cause crawling, wrinkling or lifting when examined immediately and at 15 min intervals. When allowed to dry for 1 h, there shall be no softening of the pretreatment coating.

9.2 A second coat of primer applied after 1 h drying of the first coat shall not cause crawling, wrinkling or lifting when examined immediately and at 15 min intervals. When allowed to dry for 1 h, there shall be no softening of the first coat.

9.3 When one coat of vinyl antifouling paint conforming to CAN/CGSB-1.123 is applied after 1 h drying of the second coat of primer, there shall be no crawling, wrinkling or lifting upon immediate examination. After 1 h and after 24 h drying, there shall be no softening or film irregularities when tested in accordance with CGSB standard 1-GP-71, Method 133.3.

10 **Dilution Stability** — When 20 mL of the primer is mixed with 80 mL of thinner (equal parts by volume of toluene and methyl isobutyl ketone), there shall be no thickening, curdling, pigment flocculation or evidence of incompatibility when the mixture is examined immediately and again after standing 30 min when tested in accordance with CGSB standard 1-GP-71, Method 45.1.

Adhesion

11.1 **Type 1** — One coat of primer, applied to steel coated 1 h previously with vinyl pretreatment coating conforming to CAN/CGSB-1.213 shall show good adhesion after drying for 24 h.

11.2 **Types 1 and 2** — A second coat of primer applied after 1 h drying of the first coat of Type 1, shall show good adhesion to the first coat after drying 24 h when tested in accordance with CGSB standard 1-GP-71, Method 135.3 and par. 7.2.1.

12 **Salt Water Resistance** — Steel panels coated in accordance with par. 7.2.1 and immersed in aerated salt water for 500 h shall show no blistering, cracking, peeling, wrinkling, lifting or rusting. After subsequent drying for 2 h, the film on the coated steel panels shall show no softening, loss of adhesion or other film defects when tested in accordance with CGSB standard 1-GP-71, Method 113.1 and par. 7.2.1.

13 **Resistance to Cathodic Protection** — Blasted mild-steel panels prepared, coated and exposed to sea water at -1 V for 100 d shall show no detectable loss in adhesion. Only intercoat blistering between the primer and antifouling paint film shall be permitted. There is no limitation on size and number of blisters within 6.5 mm from the scratch, but beyond the 6.5 mm score area, the blisters shall not be greater than 2 mm in diameter or cover more than 5% of the surface area. Cathodic currents shall not exceed $50 \mu\text{A}$ at the end of this period when tested in accordance with CGSB standard 1-GP-71, Method 151.

14 **Low Temperature Stability** — After exposure to -20°C for 24 h, the consistency of the primer, measured at 25°C , shall not be more than 10 units higher than the original maximum specified when tested in accordance with CGSB standard 1-GP-71, Method 31.3.

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-1.122-99
 - Manufacturer's name and address
 - Manufacturer's batch number
 - Manufacturer's code number
 - Date of manufacture
 - NATO stock number (when required)
 - Thinning instructions for spraying using the thinner (Type 1 only) conforming to CAN/CGSB-1.124.

7. INSPECTION

- 7.1 **Sampling** — Sampling shall be carried out in accordance with CGSB standard 1-GP-71, Method 1.1. The supplier shall provide a sample of the resin or resin blend (without plasticizer) used in manufacturing the primer.
- 7.2 **Testing**
- 7.2.1 **Panel Preparation**
- 7.2.1.1 *Type 1* — A coat of vinyl pretreatment coating conforming to CAN/CGSB-1.213 is applied (CGSB standard 1-GP-71, Method 98.2) to a clean steel panel (CGSB standard 1-GP-71, Method 100.1) to give a dry film $8 \pm 2 \mu\text{m}$ thick and dried 1 h (CGSB standard 1-GP-71, Method 103.1). Two coats of the primer are applied to give an additional dry film $30 \pm 3 \mu\text{m}$ thick per coat. The panel is dried 1 h between coats and then used as directed for each test.
- 7.2.1.2 *Type 2* — A coat of vinyl pretreatment coating conforming to CAN/CGSB-1.213 is applied (CGSB standard 1-GP-71, Method 98.2) to a clean steel panel (CGSB standard 1-GP-71, Method 100.1) to give a dry film $8 \pm 2 \mu\text{m}$ thick and dried 1 h (CGSB standard 1-GP-71, Method 103.1). One coat of Type 1 primer is then applied to a dry film thickness of $30 \pm 3 \mu\text{m}$ followed by one coat of Type 2 primer to a dry film thickness of $100 \pm 10 \mu\text{m}$. The panel is dried 1 h between coats and then used as directed for each test.

8. NOTES

- 8.1 **Options** — The following options must be specified in the application of this standard:
- a. Type of primer required (par. 3.1)
 - b. Packaging, packing and marking details, if normal commercial practice is not suitable (par. 6.1).
- 8.2 **Recommended Practice**
- 8.2.1 Type 1 primer is intended for application over a vinyl pretreatment coating conforming to CAN/CGSB-1.213 as a protective primer. It is not to be used directly on metal of any type.
- 8.2.2 Type 2 primer is intended for application over Type 1 primer only as a high-build alternative to allow for a reduced number of coating applications to achieve required coating system thicknesses.
- 8.2.3 The primer is intended for use on pretreated steel. On ships' bottoms, the primer should be topcoated with antifouling vinyl paint conforming to CAN/CGSB-1.123. For other uses, such as the superstructures of submarines or steel exposed to the atmosphere, the primer may be topcoated with other vinyl finishes.
- 8.3 For further more information on the proper methods of application of marine paints, see CAN/CGSB-85.10.

Related Publication

- 1 Canadian General Standards Board (CGSB)
CAN/CGSB-85.10 — Protective Coatings for Metals.

Sources of Referenced Publications

- 1 The publications referred to in par. 2.1.1 and 8.4.1 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.
- 2 The publication referred to in par. 2.1.2 may be obtained from Health Canada, Products Safety Bureau, Jeanne Mance Main Building, 12th floor, Tunney's Pasture, Ottawa, Ontario. Telephone (613) 957-4467. Fax (613) 952-3039.
- 3 The publications 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 1-800-854-7179. Fax (613) 237-4251.

Withdrawn/Retired

REFERENCE FORMULA — TYPE 1

Ingredient	% by mass
Aluminum pigment powder or aluminum pigment paste	9.05
Vinyl resin*	17.90
Dioctyl phthalate	1.85
Methyl isobutyl ketone**	35.60
Toluene	35.60

REFERENCE FORMULA — TYPE 2

Ingredient	% by mass
Aluminum pigment powder or aluminum pigment paste	19.43
Bentine 27	0.79
VYHH resin	11.06
VYLF resin	11.06
Dioctyl phthalate	2.33
Methyl isobutyl ketone**	31.65
Toluene	20.30
Cyclohexanone	3.16
Epichlorohydrin	0.10
Methanol***	0.22

* Hydrolyzed vinyl chloride-acetate copolymer (89.5-91.5% vinyl chloride, 5.3-7.0% vinyl alcohol and 2-5.5% vinyl acetate). Relative density 1.38-1.40, not less than 98% through 850 μm (No. 20 sieve conforming to CAN/CGSB-8.1) intrinsic viscosity 0.57 in cyclohexanone (1 g/100 mL).

** 95% pure, relative density 0.799-0.804 at 20°C, distilling within a 4°C range, which shall include 116°C.

*** Methanol containing approximately 5% water.