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These CGSB standards and National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

The information contained in these Standards was originally developed pursuant to a voluntary standards development initiative of the CGSB. The information contained therein may no longer represent the most current, reliable, and/or available information on these subjects. CGSB hereby disclaims any and all claims, representation or warranty of scientific validity, or technical accuracy implied or expressed respecting the information therein contained. The CGSB shall not take responsibility nor be held liable for any errors, omissions, inaccuracies or any other liabilities that may arise from the provision or subsequent use of such information. These Standards are

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.

L'information contenue dans ces normes a été élaborée initialement en vertu d'une initiative volontaire d'élaboration de normes de l'ONGC. Elle peut ne plus représenter l'information disponible et/ou l'information la plus actuelle ou la plus fiable à ce sujet. L'ONGC décline par la présente toute responsabilité à l'égard de toute affirmation, déclaration ou garantie de validité scientifique ou d'exactitude technique implicite ou explicite relative à l'information contenue dans ces normes. L'ONGC n'assumera aucune responsabilité et ne sera pas tenu responsable quant à toute erreur, omission, inexactitude ou autre conséquence pouvant découler de la fourniture ou de l'utilisation subséquente de

to be referred to for archival purposes only as their content has been repealed as of the date on this withdrawal notice.

Archived copies of withdrawn standards for historic or archival purposes are still available from the CGSB Sales Centre by telephone at 819-956-0425 or 1-800-665-2472, by fax at 819-956-5740, by Internet at www.tpsgc-pwgsc.gc.ca/ongc-cgsb/, by e-mail at ncr.CGSB-ONGC@tpsgc-pwgsc.gc.ca or by mail at Sales Centre, Canadian General Standards Board, 11 Laurier Street, Gatineau, Canada K1A 1G6.

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.

Des copies archivées des normes retirées peuvent être obtenues à des fins historiques ou archivistiques auprès du Centre des ventes de l'ONGC. Il suffit d'en faire la demande par téléphone au 819-956-0425 ou 1-800-665-2472, par télécopieur au 819-956-5740, par Internet à : www.tpsgc-pwgsc.gc.ca/ongc-cgsb/, par courriel à ncr.CGSB-ONGC@tpsgc-pwgsc.gc.ca, ou par courrier adressé au Centre des ventes, Office des normes générales du Canada, 11, rue Laurier, Gatineau, Canada K1A 1G6.

CAN/CGSB-1.5-M91

Low Flash Petroleum Spirits Thinner (ICS 87.040)

CAN/CGSB-1.5-M91

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

CAN/CGSB-1.28-98

Exterior Alkyd House Paint (ICS 87.040)

CAN/CGSB-1.28-98

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

CAN/CGSB-1.36-97

General Purpose Interior Alkyd Varnish (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

Interior Enamel Undercoater (ICS 87.040)

CAN/CGSB-1.38-2000

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

CAN/CGSB-1.40-97

Anticorrosive Structural Steel Alkyd Primer (ICS87.040)

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

Interior Alkyd Semigloss Enamel (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

Alkyd Exterior Gloss Enamel (ICS 87.040)

CAN/CGSB-1.59-97

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

CAN/CGSB-1.60-97

Interior Alkyd Gloss Enamel (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-1.88-92

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

CAN/CGSB-1.100-99

Interior Flat Latex Paint (ICS 87.040)

CAN/CGSB-1.100-99

Peinture-émulsion mate d'intérieur (ICS 87.040)

CAN/CGSB-1.104-M91

Semigloss Alkyd Air Drying and Baking Enamel (ICS 87.040)

CAN/CGSB-1.104-M91

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

CAN/CGSB-1.105-M91

Quick-Drying Primer (ICS 87.040)

CAN/CGSB-1.105-M91

Peinture pour couche primaire à séchage rapide (ICS 87.040)

CAN/CGSB-1.114-M91

Quick-Drying Flat Enamel (ICS 87.040)

CAN/CGSB-1.114-M91

Peinture-émail mate à séchage rapide (ICS 87.040)

CAN/CGSB-1.118-95

Interior Flat Alkyd Finish (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

Interior Latex Primer-Sealer (ICS 87.040)

CAN/CGSB-1.119-2000

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

CAN/CGSB-1.122-99

Anticorrosive Vinyl Primer (ICS 87.040)

CAN/CGSB-1.122-99

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

CAN/CGSB-1.132-M90

Zinc Chromate Primer, Low Moisture Sensitivity (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

Flat Alkyd Enamel for Equipment (ICS 87.040)

CAN/CGSB-1.135-99

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

CAN/CGSB-1.138-97

Exterior Latex Flat Paint (ICS 87.040)

CAN/CGSB-1.138-97

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

CAN/CGSB-1.143-98

Silicone Alkyd Heat-Resistant Aluminum Enamel (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 polyuréthanne, 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)

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)

NATIONAL STANDARD OF CANADA

CAN/CGSB-1.114-M91

Supersedes 1-GP-114M

Quick-Drying Flat Enamel

Canadian General Standards Board

CGSB

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CGSB has been accredited by the Standards Council of Canada as a national standards-writing organization. The standards that it develops and offers as National Standards of Canada conform to the criteria and procedures established for this purpose by the Standards Council of Canada. In addition to standards it publishes as national standards, CGSB produces standards to meet particular needs, in response to requests from a variety of sources in both the public and private sectors. Both CGSB standards and national standards developed by CGSB are developed in conformance with the policies described in the Policy Manual for the Development and Maintenance of Standards by CGSB.

CGSB standards are subject to review and revision at any time, so as to ensure that they keep abreast of technological progress. Suggestions for their improvement, which are always welcome, should be brought to the notice of the standards committees concerned. Changes to standards are issued either as separate amendment sheets or in new editions of standards.

An up-to-date listing of CGSB standards, including details on latest issues and amendments, and ordering instructions, will be found in the CGSB Catalogue, which is published annually and is available without charge upon request.

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.

Many tests required by CGSB standards are inherently hazardous. 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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Further information on CGSB and its services and standards may be obtained from:

The Secretary
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K1A 1G6

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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-writing 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:

Standards Council of Canada
350 Sparks Street
Ottawa, Ontario
K1P 6N7

NATIONAL STANDARD OF CANADA

CAN/CGSB-1.114-M91

Supersedes 1-GP-114M
August 1983

QUICK-DRYING FLAT ENAMEL

This new edition supersedes CGSB standard 1-GP-114M, August 1983. The gloss requirement has been increased to 8 maximum.

The Department of National Defence administers a Qualification Listing Program for products conforming to the requirements of this standard. Further information on the listing program is available from the Director of Engineering and Maintenance Planning and Standardization (DEMPS 4), Ottawa, Canada K1A 0K2.

Colour Requirement — For purposes of qualification, the following colour must be qualified before a listing, applying to all colours, can be obtained: green 503-321.

Outdoor Exposure — Par. 4.16 is intended for qualification purposes only.

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Canadian General Standards Board CGSB

Approved by the
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Published May 1991 by the
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CANADIAN GENERAL STANDARDS BOARD

QUICK-DRYING FLAT ENAMEL

1. SCOPE

1.1 This standard applies to quick-drying durable enamel based on a suitable synthetic vehicle, for use on metal.

1.2 For more detailed information on intended uses, see par 7.2.

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 existing applicable regulatory requirements prior to its use.

2. APPLICABLE PUBLICATIONS

2.1 The following publications are applicable to this standard:

2.1.1 Canadian General Standards Board (CGSB)

1-GP-12 — Standard Paint Colors

1-GP-71 — Methods of Testing Paints and Pigments

1-GP-94M — Thinner, Xylene (Xylol).

2.1.2 Department of Consumer and Corporate Affairs

Hazardous Products Act.

2.1.3 ASTM

D 610 — Method for Evaluating Degree of Rusting on Painted Steel Surfaces.

2.2 Reference to the publications in par. 2.1.1 and 2.1.3 and other related standards is to the latest issues, unless otherwise specified by the authority applying this standard. The sources for all publications are shown in the Notes section.

3. GENERAL REQUIREMENTS

3.1 Enamel to this standard shall consist of suitable pigments adequately dispersed in a quick-drying vehicle, together with the necessary thinners and driers.

3.2 The enamel as supplied shall be suitable for brushing small areas for retouching and shall be satisfactory for spraying and dipping when reduced with CGSB 1-GP-94M thinner in accordance with the manufacturer's instructions.

3.3 The enamel shall dry to a smooth uniform appearance. The dried film shall have good adhesion, high resistance to chalking and maximum colour stability.

3.4 The enamel shall not skin, thicken excessively or cake in the original unopened container for one year from date of delivery when stored at temperatures not exceeding 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. 4.2.

3.5 **Colour** — The enamel shall conform to such CGSB 1-GP-12 flat colours, as specified (par. 7.1).

4. DETAILED REQUIREMENTS

Enamel to this standard shall comply with the following detailed requirements when tested in accordance with the specified test method:

				Test Method	
		Min.	Max.	CGSB 1-GP-71	ASTM
4.1	Consistency, Krebs units	65	—	4.5	—
4.2	Drying time, dry hard, min	—	30	5.1	—
4.3	60° gloss, units	—	8	13.1	—
4.4	Hiding power, 12.5 m^2/L	12	—	14.2	—
	Exceptions: solid red and yellow colours	6	—		
	solid blue colours	8	—		
4.5	Fineness of grind, Hegman	5	—	—	D 1210
4.6	Volatile matter, % by mass	—	48	17.1	—
4.7	Nonvolatile vehicle, % by mass	17	—	19.1	—
4.8	Rosin and rosin derivatives, % by mass of NVV	—	3.0	60.2	—

4.9 **Skinning Properties** — The enamel shall be nonskinning when tested in accordance with CGSB standard 1-GP-71, Method 10.1.

4.10 **Water Resistance** — The dried film shall withstand immersion in water at 23°C for 24 h without blistering, wrinkling or lifting. After subsequent drying for 2 h, the film shall show no softening, whitening, dulling nor loss of adhesion when tested in accordance with CGSB standard 1-GP-71, Method 110.1. The loss of adhesion is to be evaluated by the knife test in accordance with Method 135.1.

4.11 **Scratch Resistance** — The dried film shall withstand the scratch test under a load of 900 g without exposing the metal through the scratch of the film when tested in accordance with CGSB standard 1-GP-71, Method 116.2.

4.12 **Flexibility** — The dried film shall not show cracking or peeling when subjected to the bending test at 23°C using a 3.2 mm diameter mandrel in accordance with CGSB standard 1-GP-71, Method 119.1.

4.13 **Accelerated Weathering Resistance** — The dried film shall withstand an exposure period of ten 24 h cycles in an accelerated weathering machine in accordance with CGSB standard 1-GP-71, Method 122.6, without showing evidence of chalking, cracking, flaking or peeling, and not more than a slight colour change.

4.14 **Salt Spray Resistance** — When a film of the enamel is examined immediately after being subjected to 144 h salt spray exposure, it shall show no rust creepage nor undercutting beyond 3.0 mm from the score mark. At all other points on the panel, rusting shall not exceed Rust Grade 9 (ASTM D 610). Also there shall not be more than five scattered blisters that are larger than 1 mm in diameter on each panel and, on removal of the enamel, the surface of the steel shall not show more than a trace of rusting, pitting or corrosion when tested in accordance with CGSB standard 1-GP-71, Method 129.3

4.15 **Self-Lifting** — The enamel film shall take dip application of a second coat at intervals of 30 min, 24 h and 96 h without blistering, wrinkling, lifting, loosening, softening or other defects due to intercoat action when tested in accordance with CGSB standard 1-GP-71, Method 132.3.

4.16 **Outdoor Exposure (see Title Page)** — When exposed outdoors in Halifax for one year, one coat of the enamel applied to phosphated steel shall show no checking, cracking or appreciable film deterioration. There shall not be more than moderate chalking of light blue, grey and white colours and not more than light chalking of other colours. There shall be no general rusting of the panel and no rust creepage or blistering beyond 3.0 mm from the score marks. After removal of any chalking that may have occurred, the original colour shall be substantially restored and

the washed area shall not show more than slight fading or darkening when tested in accordance with CGSB standard 1-GP-71, Method 143.4.

4.17 **Reactivity Option** — When reactivity is requested (par. 7.1), the reactivity gas volume shall be specified and shall not be exceeded when the enamel is tested for reactivity with the specified explosives under designated conditions. The test shall be conducted in accordance with CGSB standard 1-GP-71, Method 87.1.

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 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 1.114-M91

CGSB standard 1-GP-12 Colour

Manufacturer's name and address

Manufacturer's batch number

Manufacturer's code number

Date of manufacture

Thinning instructions for spraying and dipping using thinner conforming to CGSB standard 1-GP-94M.

5.3 **Toxic Elements** — This material shall be labelled to conform to the requirements of the Hazardous Products Act in respect to designated toxic elements.

6. INSPECTION

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

6.2 **Testing** — When test panels are to be prepared by spraying, the amount of thinner, conforming to CGSB standard 1-GP-94M, used to reduce the enamel shall be in accordance with the manufacturer's instructions.

7. NOTES

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

a. Colour of enamel (par. 3.5)

b. If reactivity is a requirement (par. 4.17)

c. Preparation for delivery if other than as specified (par. 5.1).

7.2 **Intended Uses**

7.2.1 This enamel may be generally used for interior and exterior exposure on metal surfaces of light and heavy equipment, vehicles and ammunition, where a flat finish is required. The metal may be suitably prepared steel, copper, zinc, aluminum or magnesium. It is not generally intended for wood or masonry that may be subjected to exterior exposure.

7.2.2 This enamel is primarily intended for use on ammunition, equipment and vehicles where a flat finish is required for camouflage purposes. It has good chemical, corrosion and water resistance when applied as intended over a priming system such as CGSB standard 1-GP-81M or 1-GP-105M.

7.2.3 This enamel is not intended for use where gasoline resistance is a prime requisite, such as on automotive equipment.

7.2.4 Detailed information on the application of this enamel on new and old surfaces is shown in CGSB standard 1-GP-72, Guide to the Selection of Paint Standards on Use Basis.

7.3 **Related Publications**

7.3.1 CGSB Standards

1-GP-81M — Primer, Alkyd, Air Drying and Baking for Vehicles and Equipment

1-GP-105M — Primer, Quick Drying.

7.3.2 U.S. Federal Specification

TT-E-516 — Enamel, Lustreless, Quick-Drying, Styrenated Alkyd Type.

7.4 **Sources of Referenced Publications**

7.4.1 The publications referred to in par. 2.1.1, 7.2.2, 7.2.4 and 7.3.1 may be obtained from the Canadian General Standards Board, Sales Unit, Ottawa, Canada K1A 1G6. Telephone (819) 956-0425 or 956-0426. Fax (819) 956-5644.

7.4.2 The publication referred to in par. 2.1.2 may be obtained from the Canada Communication Group, Publishing, Ottawa, Canada K1A 0S9. Telephone (819) 956-4802.

7.4.3 The publication referred to in par. 2.1.3 may be obtained from ASTM, 1916 Race Street, Philadelphia, PA 19103, U.S.A. or from the Standards Council of Canada, Standards Sales Branch, 350 Sparks Street, Suite 1200, Ottawa, Ontario K1P 6N7.

7.4.4 The publication referred to in par. 7.3.2 may be obtained from the Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120, U.S.A.