



BSI Standards Publication

Aerospace series — Paints and varnishes — Chromate free non corrosion inhibiting two components cold curing primer for military application

National foreword

This British Standard is the UK implementation of EN 4687:2012.

The UK participation in its preparation was entrusted by Technical Committee ACE/65, Non-metallic materials for aerospace purposes, to Panel ACE/65/-/3, Paints, Surface Finish and Protective Treatments for Aerospace Purposes.

A list of organizations represented on this committee can be obtained on request to its secretary.

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EN 4687

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English Version

**Aerospace series - Paints and varnishes - Chromate free non
corrosion inhibiting two components cold curing primer for
military application**

Série aérospatiale - Peinture et vernis - Peinture primaire
sans chromate non anticorrosive à deux composants
polymérisant à température ambiante pour applications
militaires

Luft- und Raumfahrt - Beschichtungsstoffe -
Zweikomponenten Grundbeschichtung, chromatfrei, nicht
korrosionshemmend, raumtemperaturhärtend, für
militärische Anwendung

This European Standard was approved by CEN on 21 January 2012.

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Contents		Page
Foreword.....		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	7
4	Surface pretreatments.....	7
5	Classification.....	7
6	Batch release and qualification testing	8
7	Requirements for fibre reinforced composites	18
8	Designation	18

Foreword

This document (EN 4687:2012) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2012, and conflicting national standards shall be withdrawn at the latest by September 2012.

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Introduction

The requirements concerning fibre reinforced composite substrates are established in Clause 7.

1 Scope

This European Standard defines the requirements for a two components, chromate and lead free epoxy, non corrosion inhibiting primer.

The coating should be suitable for use on fibre reinforced composite materials, titanium and corrosion resistant steels and other suitably prepared corrosion resistant substrates.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2101, *Aerospace series — Chromic acid anodizing of aluminium and wrought aluminium alloys*

EN 2334, *Aerospace series — Chromic-sulphuric acid pickle of aluminium and aluminium alloys*

EN 2437, *Aerospace series — Chromate conversion coatings (yellow) for aluminium and aluminium alloys*

EN 3837, *Aerospace series — Paints and varnishes — Nature and method for surface preparation of test pieces in aluminium alloys*¹⁾

EN 3840, *Aerospace series — Paints and varnishes — Technical specification*

EN 3847, *Aerospace series — Paints and varnishes — Determination of sedimentation rating*¹⁾

EN 4160, *Aerospace series — Non-metallic materials — Paints and varnishes — Test methods — Determination of the effect of thermal exposure*¹⁾

EN 4688, *Aerospace series — Paints and varnishes — Corrosion inhibiting two components cold curing primer for military application*

EN 4689, *Aerospace series — Paints and varnishes — Two components cold curing polyurethane finish — High flexibility and chemical agent resistance for military application*

EN ISO 1513, *Paints and varnishes — Examination and preparation of test samples*

EN ISO 1518, *Paints and varnishes — Determination of scratch resistance*

EN ISO 1519, *Paints and varnishes — Bend test (cylindrical mandrel)*

EN ISO 1520, *Paints and varnishes — Cupping test*

EN ISO 1524, *Paints, varnishes and printing inks — Determination of fineness of grind*

EN ISO 2409, *Paints and varnishes — Cross-cut test*

1) Published as ASD-STAN Prestandard at the date of publication of this standard (www.asd-stan.org).