

EpoPro[®] 22750-##### A/B

MIL-PRF-22750 TYPE I & II, CLASS H, GRADE B EPOXY COATINGS

The EpoPro[®] 22750-##### series are high solids, two components epoxy formulations that meet the requirements of MIL-PRF-22750 rev G, Type I and Type II. EpoPro[®] 22750 formulations are HAPS-Free and are VOHAP-Free coatings for Navy and Army use. The maximum volatile organic compound (VOC) content is less than or equal to 340 grams/liter (2.8 pounds/gallon) and the cured coatings provide excellent weather and chemical resistance.

The EpoPro[®] 22750-II series is available in a wide range of colors that match the Fed Std 595C or AMS STD 595A color swatches. The color number is incorporated into the product designation for ease of identification. Gloss, semi-gloss, and flat versions of most colors are available and the gloss level is indicated by a G, SG, or F at the end of the product designation.

APPLICATIONS & BENEFITS

- Exceptional adhesion to a wide variety of materials including many plastics
- Long Work Life and Room Temperature Cure
- 100% Solids & Very Low Volatile Organic Content (VOC)

HANDLING PROPERTIES	VALUE
<u>EpoPro[®] 22750 series</u>	
Weight / Gallon	10.2 lbs./gallon
Solids Content by Volume	58% ± 5.5%
Solids Content by Weight	70% ± 5%
Volatile Organic Content (VOC)	≤2.8 lbs. / gallon (≤ 340g/L)
Initial Mixed Viscosity at 25°C - #4 Ford Cup	< 50 seconds
Film Thickness	2 – 2.5 Mils
Coverage (Theoretical)	800 ft ² at 1mil dry thickness
Coverage (Actual Field Use)	340 - 360 ft ² at 1mil dry thickness
Mix Ratio	3A: 1B by volume)
Induction Time	10 - 15 minutes (minimum)
Pot life (100 grams) at 25°C	4- 8 hours (viscosity ≤ 70 seconds, #4 Ford cup)
Gel time at 25°C	about 8 hours.
Dry Time at 25°C at 2 mils thick	4 hours (Dry to touch); 8 hours (dry hard)
Time to recoat	8 - 16 hours at 25°C or flash dry for 10-15 minutes in an oven 95°C
Full Cure	7 days at room temperature (25°C) or oven dried for 30 minutes at 95°C
Shelf Life	at least 12 months sealed when stored at 15°C - 35°C

NOTE: Typical Properties determined using EpoPro[®] 22750-II coatings tested at 25°C - unless otherwise stated. Values are based on laboratory or average production results – not for specification purposes.

Product Datasheet



Standard Colors: (most available in both Flat and Gloss version)

Production number	Color and Gloss
22750- 37875F	Fed Std 595C color # 37875 "insignia White" - Flat
22750- 36081F	Fed Std 595C color # 36118 "Medium Gunship Gray" - Flat
22750- 36118F	Fed Std 595C color # 36118 "Medium Gunship Gray" - Flat
22750- 36173F	Fed Std 595C color # 36173 "Neutral Gray" - Flat
22750- 36231F	Fed Std 595C color # 36231 "Dark Gull Gray" - Flat
22750- 37038F	Fed Std 595C color # 37038 "Black" - Flat
22750- 37875F	Fed Std 595C color # 37875 "insignia White" Flat

SUGGESTED PROCESSING GUIDELINES

Shake each container well prior to use. Mix thoroughly for at least 2 minutes using a stirring stick or jiffy mixer. During use, stir the mixed coating periodically to keep the pigments suspended and uniformly distributed. The surfaces being coated, the coating, and the ambient temperature should all be between 60°F – 90°F at the time for application to achieve satisfactory results.

The EpoPro® 22750 series of coatings can be applied by brush, roller, or by spraying. Most conventional paint sprayers, especially HVLP sprayers can successfully apply this coating.

Surfaces should be completely clean and before application of the coating. For best adhesion, abrade the surface with a wire brush, scouring pad, steel wool or coarse sandpaper. After abrasion, clean the surface of any loose material and degrease with solvent or detergent to remove any contaminants. Application temperature should preferably be between 60°F – 90°F.

Suggested Thinners/Reducers: for mil spec applications use MIL-DTL-81772C type 2 thinner. As a guideline, you may add 1 part reducer to 3 parts catalyzed coating. Add reducer after coating has been thoroughly mixed. For non-mil spec applications, Ultralane® Thinner #1 and Ultralane® Thinner #25 may be used at levels as high as 1 part thinner to 1 part of the mixed coating.

Suggested Primers: for mil spec coating applications use MIL-PRF-23377K and MIL-PRF-85582E compliant primers. For other applications you can also consider Primax™ SF+, Primax™ P94 and other Primax™ primers suitable for the substrate being coated.

Suggested Cleaning materials: Tools and equipment can be cleaned with MIL-DTL-81772C type 2 thinner, Ultralane® Thinner #1 and Ultralane® Thinner #25. Xylene, turpentine, and Mineral spirits may also be suitable for cleaning equipment.

PACKAGING AVAILABLE

This product is available in a wide range of kits from half-pints up to 5-gallon pails.

STORAGE GUIDELINES

Product Datasheet



Store this material in a clean, cool and dry environment in its tightly closed original containers. Avoid extended exposure to high humidity. Tightly re-seal after use. If the recommended storage conditions are observed the products will have a minimum shelf-life of 12 months from the date of shipment.

It is possible for these products to crystallize if exposed to extremely cold temperatures such as during air shipment or transit during the certain times of the year. This can appear as graininess, cloudiness or an increase in viscosity. If this has occurred, heat the component in its original container for 2-4 hours at 50°C and this should re-liquefy the material. Once fully re-liquefied allow the containers to cool to room temperature and then stir gently for at least a minute before use to ensure the material is completely uniform.

HANDLING PRECAUTIONS

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

FIRST AID

In case of contact: **Skin** – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather. **Eyes** – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention. **Inhalation** - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician. **Ingestion** - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER

IMPORTANT: The following supersedes Buyer's documents. **SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

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