

Product Data Sheet:ELKTC40G160121A

Water-Borne TufKoat® TC-40G High Gloss Lacquer

Against Tarnishing for Artifacts of Copper, Copper Alloys, and Metals Plated Therewith

Characteristics:

1. Water borne, pollution-free, non-inflammable.
2. High gloss, high hardness film formed thereof.
3. Protective film with high resilience and abrasion resistance.
4. Easy to use and self-dryable or by forced dry.
5. Excellent anti-tarnishing to copper and copper alloy plating substrates.
6. Conforming to any environmental or VOC regulations

Introduction:

TufKoat® TC-40G is a water-borne, thermoplastic lacquer, designed especially for copper and copper alloys or any metals plated with copper, brass, and bronze, etc., to perform as a high gloss protective film with 2H+ hardness and excellent tarnish resistance standing up to 72 hours salt spray test.

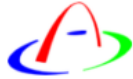
TufKoat® TC-40G can be applied onto metal pieces either by brushing, immersion, spraying, or rollers in a conventional way, followed by drying at ambient temperature or preferably, by accelerated heating process, to develop its film hardness of 2H+ within 48 hours. In practice, **TufKoat®** TC-40G may be tintable with most water-based color pastes or dyes, to match a variety of different requirements for final commercial values..

Copper or copper alloy artifacts, or metal pieces plated therewith, after treatment with **TufKoat®** TC-40G, can form a highly glossy protective barrier film, to fight against any tarnishes caused by air, moisture, grease or fingerprints, and in the mean time, minimize any scratches caused by processing or transportation.

In general, metal surfaces pretreated by cleaning, buffing, degreasing, electrodeposition, or any other pertinent treatments, can be coated readily with **TufKoat®** TC-40G, to result in a efficient protective film with outstanding adhesion against tarnishing.

On the other hand, to meet the most stringent requirements of modern environmental and safety regulations, e.g. VOC or RoHS, **TufKoat®** TC-40G can be used easily and with minimal precaution measures, due to its extremely low volatile organic contents and ecological, but effective

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compositions.

Specifications:

Appearance:	White translucent
Chemical type:	Modified polyurethane dispersion
Non-volatile, 110°C x 2 hours:	20 ± 1 %
Specific gravity, g/ml, 25°C:	1.01 ± 0.05
pH value:	8 ~ 9
Viscosity, Ford Cup #4, 25°C:	15 ± 5 seconds

Packages:

20 kilograms in PE plastic pails or 200 kilograms in PE plastic drums ◦

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