



Product Data Sheet: ELKTF7442R170104A

**Water-Borne *TufKoat*<sup>®</sup> TF-7442R High Gloss Lacquer**

- Excellent Rust Prevention Directly on Bare Iron/Steel Workpieces

**Characteristics:**

1. Water borne, pollution-free, non-inflammable.
2. High gloss and high hardness film formed therewith.
3. Good intercoat adhesion to colored and top coats.
4. Effective and easy to use, self-dryable or by forced dry.
5. Excellent corrosion resistance directly on bare iron/steel artefacts.
6. Conforming to any environmental or VOC regulations.

**Introduction:**

**TufKoat**<sup>®</sup> TF-7442R is a water-borne, thermoplastic lacquer, designed especially for bare iron/steel workpieces, to perform as a high gloss protective film with high hardness and excellent rust resistance.

**TufKoat**<sup>®</sup> TF-7442R 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 1H ~ 2H within 48 hours and excellent corrosion resistance of up to 72 hours salt spray test.

In practice, before **TufKoat**<sup>®</sup> TF-7442R is applied, bare metals must be cleaned off dusts, stains, rusts, and oils/greases as in a conventional pretreatment process, to ensure the perfect adhesion between metals and the varnish, so that the protective film can be formed.

The effective rust-prevention brought by **TufKoat**<sup>®</sup> TF-7442R on bare irons/steels may be used to replace or simplify some of the existing processes, such as anti-rust greasing, phosphating, and electroplating, etc. By doing this, environmental pollutions can be reduced, and cost advantageous. In addition, **TufKoat**<sup>®</sup> TF-7442R may also be used as a rust-preventive primer, so that a variety of colored or functional coats can be applied on top of it, to increase the ethnics and added-values of the metal artifacts,

may be tintable with most water-based color pastes or dyes, to match a variety of different requirements for final commercial values..

Iron/steel or iron/steel alloy artifacts, or metal pieces plated therewith, after treatment with **TufKoat**<sup>®</sup> TF-7442R, can form a highly glossy protective barrier

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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**<sup>®</sup> TF-7442R, 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**<sup>®</sup> TF-7442R can be used easily and with minimal precaution measures, due to its extremely low volatile organic contents and ecological, but effective compositions.

### Specifications:

Appearance:	Aqueous colorless translucent
Chemical type:	Modified polyurethane dispersion
Non-volatile, 110 °C x 2 hours:	20.5 ± 1 %
Specific gravity, g/ml, 25 °C:	1.02 ± 0.05
pH value:	7 ± 0.5
Viscosity, Ford Cup #4, 25 °C:	11 ± 1 seconds

### Packages:

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

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