



Product Data Sheet: ELKTC78110812C

KorriSeal® TC-78 Corrosion Inhibitor for Paints

- excellent against tarnishing of copper, copper alloys and the metals plated therewith.

Characteristics:

1. Excellent Corrosion Resistance/Anti-Tarnishes when Incorporated into the Paints/Coatings for Copper, Copper Alloys and Metals Plated therewith.
2. Effectively Upgrading Adhesion Performance of Coatings to Metals.
3. High Solid in Benign Solvent with None Regulated Metal Salts Content.
4. Versatile and Readily Usable in a Variety of Paints and Coatings of Solvent-Type, Water-Borne, and Radiation-Curable.
5. Easy to Use and Economical, with only 1~3% Dosage in Paints/Coatings.

Introduction:

KorriSeal® TC-78 is a highly effective, high solid corrosion inhibitor for copper, copper alloys or metal substrates plated therewith, when used alone in dilute form, or added properly in paints and coatings. In addition, **KorriSeal® TC-78** can help improve significantly the adhesion of coatings to the above-mentioned metals.

KorriSeal® TC-78 contains 32% hydrophilic ether acetate solvent and can be added to a variety of coatings of water-borne, solvent-type and radiation-curable, including self-dryable, baking enamels, two-component or one-component polyurethanes. However, when **KorriSeal® TC-78** shows any poor compatibility or stability in coatings, we would be glad to provide pertinent options.

It is recommended that, to demonstrate its excellent corrosion resistance, **KorriSeal® TC-78** is dosaged at less than 3%, weight by weight, in most coating systems. In general, 1% ought to be a reasonable initial point to start with, followed by gradual ladder tests, to work out a match to the required performance. Worth noting is, due to the variety of coating systems, as well as widely different requirements and performances, **KorriSeal® TC-78** has to be tested its compatibility with the coatings, before its performance is evaluated.

In general, practical applications, **KorriSeal® TC-78** can be added to any coatings at the final, let-down stage and blended homogeneously.

Specifications:

Appearance:	Amber translucent solution
Solid Content, 110 °C x 1 hr.:	68 ± 2 %
Solvent:	PMA (Propyleneglycol monomethylether acetate)
pH Value, 25 °C:	8.5 ± 0.5
Chemical Type:	Organic
Specific Gravity, gm/ml, 25°C:	1.05 ± 0.05
Flash Point, °C:	< 20

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Suggestions:

1. Before use, it is advised to test the compatibility and stability of **KorriSeal® TC-78** with coating resins.
2. During use, take any necessary precautionary measures and safety tools, to avoid any hazards caused by the solvent-borne **KorriSeal® TC-78**.
3. After use, it is advised to seal **KorriSeal® TC-78** tightly in containers, to avoid any evaporation or contamination.
4. To evaluate its performance, it is advised to compare, before and after the incorporation of **KorriSeal® TC-78** into the same coating system, the adhesion, gloss, hardness, corrosion resistance, adhesion, or any other properties deemed necessary.
5. In normal use, the dosage of **KorriSeal® TC-78** is maintained below 3% in coatings; more than this may cause any cross-linking or side reactions in coatings, which may hurt product shelf life.

Product Storage:

It is advised that the sealed, unused **KorriSeal® TC-78** in original container is preferably stored at ambient temperature and under well ventilated condition; direct sunlight is to be avoided.

Whereas those opened and used, the remaining **KorriSeal® TC-78** in the original containers are preferably sealed tightly right after, and to be used-up preferably in three months of time.

Packages:

20 kilograms net in PE plastic pails or 200 kilograms net in PE plastic drums.

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