



Product Data Sheet: ELKTC79A130321B

***Bond Tite*[®] TC-79 Corrosion Inhibitor for Paints**

- Used in Solvent-Based Baking Enamels/2K PU/UV Curable Coatings.

Characteristics:

1. Excellent Adhesion to a Variety of Metals.
2. Excellent Compatibility with a Variety of Resins.
3. Dissolved in Benign Solvent with None Regulated Metal Salts Content.
4. Versatile and Readily Usable in a Variety of Paints and Coatings of Solvent-Type Baking Enamels/2K PU/UV Curable Coatings.
5. Enhancing Improvement to Resistance to Temperature, Acid, Alkaline and Corrosion.
6. Economical and Efficient in Low Dosage when Used.

Introduction:

Bond Tite[®] TC-79 is a highly effective adhesion promoter to a variety of metal substrates, when incorporated into solvent-based industrial coatings. Especially for copper and copper alloys, *Bond Tite*[®] TC-79 can help improve significantly their adhesion to coatings, while they can be protected from corrosion attack.

It is recommended that, to achieve the satisfactory adhesion performance, *Bond Tite*[®] TC-79 is to be used in coatings at the dosage of 2% or less, solid by solid, of the total coating solids. In general, 1% should be the point to start with, followed by the ladder experiments. Even though *Bond Tite*[®] TC-79 has good compatibility with a variety of resins, we still suggest an initial test is required, considering the wide spectrum of resins and suppliers thereof available.

Specifications:

Appearance:	Amber translucent solution
Solid Content, 110 °C x 30 min.	18 ± 1 %
Solvent:	PMA (Propyleneglycol monomethylether acetate)
Chemical Type:	Organo-inorganic complex $\text{Ar}-\text{O}-\overset{\text{O}}{\parallel}{\text{C}}-\text{N}-\text{R}-\text{Si}(\text{OR})_3$
Specific Gravity, gm/ml, 25°C:	0.95 ~ 0.98
Flash Point, °C:	> 42

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Suggestions:

1. Before use, it is advised to test the compatibility and stability of *Bond Tite*[®] **TC-79** with coating resins.
2. During use, take any necessary precautionary measures and safety tools, to avoid any hazards caused by the solvent-borne *Bond Tite*[®] **TC-79**.
3. After use, it is advised to seal *Bond Tite*[®] **TC-79** 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 *Bond Tite*[®] **TC-79** 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 *Bond Tite*[®] **TC-79** is maintained below 2% in coatings, solid by solid against total coating solid; 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 *Bond Tite*[®] **TC-79** 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 *Bond Tite*[®] **TC-79** 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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