

Product Data Sheet: ELKN-CRX02A120118A

**FastKcoat® CR-X-02A Acidic, nano-grade sealer**

– for the corrosion resistance of passivated galvanized metals

**Characteristics:**

1. Excellent corrosion resistance.
2. Excellent water resistance.
3. Excellent recoatability.
4. Chromate (Cr<sup>6+</sup>)-free, conforming to RoHS & VOC regulations.
5. Easy to use
6. Non-inflammable, non-toxic, and pollution free.

**Description:**

**FastKcoat® CR-X-02A** is an excellent aqueous sealer for galvanized substrates, to reinforce the corrosion resistance. With nano-grade hybrid complexes in the mildly acidic solution, **FastKcoat® CR-X-02A** works efficiently and effectively on passivated, galvanized metal pieces with respect to the corrosion resistance. In practice, depending on the requirements of anti-corrosion, **FastKcoat® CR-X-02A** can be diluted readily with deionized water before applying onto metal surfaces, to match the required performance at competitive cost.

**FastKcoat® CR-X-02A** contains no chromate (Cr<sup>6+</sup>) or other hazardous chemicals deeply concerned in the concurrent environmental and health issues. Furthermore, there are only minimal volatile organic contents. Therefore, to meet the ever more stringent regulations, such as RoHS and VOC, etc., **FastKcoat® CR-X-02A** can be a reliable material for the long term development.

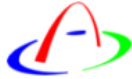
**Conventional Electro galvanization Process:**

Electro galvanization → Rinse → Passivation with Cr<sup>6+</sup> or Cr<sup>3+</sup> → Rinse → Dewatering → Drying

**Recommended Process for using FastKcoat® CR-X-02A:**

Electro galvanization → Rinse → (Passivation → Rinse)<sup>Δ</sup> → Treated with **FastKcoat® CR-X-02A** → Rinse → Dewatering → Drying (100 ~ 150 °C x 10 ~ 15 min.)

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△ Omittable option, depending on visual effects expected

### Specifications:

Appearance:	Light bluish, translucent solution
Chemical Type:	Special complexed salts
Non-volatile , 150 °C x 2 hour	5.5 ± 0.5 %
Sp. gravity , gm/ml , 25 °C:	1.05 ± 0.01
pH Value:	2.9 ± 0.5

### Suggetions:

1. Preparation: Dilute **FastKoat**® CR-X-02A readily with proper amount of deionized water at room temperature in a holding tank, preferably of plastic or stainless steel type.
2. In Use: Closely monitor and control the pH value of diluted **FastKoat**® CR-X-02A solution on-line in the range of 3.0 ± 0.5, and its non-volatile within 10% of its initially prepared concentration. To avoid any potential contamination, the galvanized metal pieces should be rinsed thoroughly before contact with the **FastKoat**® CR-X-02A solution.
3. After Use: A daily filtration of the prepared **FastKoat**® CR-X-02A after use is highly recommended, to remove any contaminated impurities. The holding tank containing the **FastKoat**® CR-X-02A solutions has to be covered after use. The containers and tools in contact with the **FastKoat**® CR-X-02A have to be cleaned with water immediately after use.

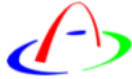
### Packages:

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

### Test Results:

Demonstrated as follows are three hot-dip panels. The middle one is subjected to immersion in **FastKoat**® CR-X-02A solution for 20 seconds at room temperature, followed by setting for air dry for 20 minutes. The 145

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hours salt spray test (140H SST) (ASTM B-147) is run immediately and the panel is hardly white-rusted except on edges. The left panel is the untreated hot-dip before the test, whereas the right one is the untreated hot dip subject to SST for 24 hours, as the contrast comparison thereof.



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