

Product Data Sheet:ELKN-VM40100802B

**FastKcoat<sup>®</sup> VM-40** *Weakly alkaline, chrome-free, nano-grade sealer*

– for the corrosion and abrasion resistance of passivated galvanized metals

**Characteristics:**

1. Excellent corrosion resistance and slip hand.
2. Excellent zinc sheen retention.
3. Excellent efficiency/cost competency..
4. Excellent abrasion resistance.
5. Chrome (Cr<sup>6+</sup> & Cr<sup>3+</sup>)-free, conforming to RoHS & VOC regulations.
6. Easy to use
7. Non-inflammable, non-toxic, and pollution free. .

**Description:**

**FastKcoat<sup>®</sup> VM-40** is an excellent aqueous sealer for galvanized substrates, to reinforce the corrosion resistance and abrasion resistance thereof. With nano-grade hybrid complexes in the weakly alkaline solution, **FastKcoat<sup>®</sup> VM-40** can be used safely and easily, without blurring the original zinc sheen on the surfaces, typically seen with acid sealers..

**FastKcoat<sup>®</sup> VM-40** 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<sup>®</sup> VM-40** can be diluted readily with deionized water before applying onto metal surfaces, to match the required performance at competitive cost.

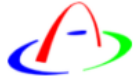
In addition, galvanized metals, treated with **FastKcoat<sup>®</sup> VM-40**, have consistently demonstrated excellent lubricity of the protective film formed, an extra benefit for end applications.

**FastKcoat<sup>®</sup> VM-40** contains no chrome (Cr<sup>6+</sup> and Cr<sup>3+</sup>), no 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<sup>®</sup> VM-40** 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 →

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Dewatering → Drying

**Recommended Process for using *FastKoat*<sup>®</sup> VM-40:**

Electro galvanization → Rinse → (Passivation → Rinse)<sup>Δ</sup> → Treated with *FastKoat*<sup>®</sup> VM-40 → Rinse → Dewatering → Drying (100 ~ 150 °C x 10 ~ 15 min.)

<sup>Δ</sup> Omittable

**Specifications:**

Appearance::	Brown translucent solution
Chemical Type:	Special complexed salts
Non-volatile , 150°C x 2 hour	10.50 ± 1.00 %
Sp. gravity , gm/ml , 25°C:	1.02 ± 0.01
pH Value:	11.0 ± 0.5

**Suggetions:**

1. Preparation: Dilute *FastKoat*<sup>®</sup> VM-40 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 *FastKoat*<sup>®</sup> VM-40 solution on-line in the range of 9~11, 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*<sup>®</sup> VM-40 solution.
3. After Use: A daily filtration of the prepared *FastKoat*<sup>®</sup> VM-40 after use is highly recommended, to remove any contaminated impurities. The holding tank containing the *FastKoat*<sup>®</sup> VM-40 solutions has to be covered after use. The containers and tools in contact with the *FastKoat*<sup>®</sup> VM-40 have to be cleaned with water immediately after use.

**Packages:**

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

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