

DATA SHEET

Dev-Seal Armor

Dev-Seal Armor is a liquid concentrated sealer incorporating nano-particles for superior corrosion protection on zinc-plated parts. It was developed specifically to be used in conjunction with **Deveco Fusion Black** and **Tri-Black** coatings to produce **glossy black coating**. It is diluted with water and applied by dip coating and drying.

A 35% **Dev-Seal Armor** solution will extend salt spray resistance at least 168 - 200 hours to white rust when testing per ASTM B-117 neutral salt spray test. (Evaluate the test parts while wet to distinguish zinc's white corrosion product from a whitish blush which may be present from the sealer).

OPERATING PARAMETERS

| | |
|-----------------------|------------------|
| Dev-Seal Armor | 35% v/v |
| Temperature | 75 to 90 °F |
| pH | 9.5 to 11.0 |
| Time | 20 to 30 seconds |

Parts to be sealed with **Dev-Seal Armor** are to be rinsed thoroughly prior to dipping.

Drying of the **Deveco Fusion** or **Tri-Black** coating prior to dipping in **Dev-Seal Armor** will maximize the corrosion protection of the finish. (*Over-drying may reduce adhesion of the seal*).

Part temperature during drying should not exceed 160 °F. Over-drying may dehydrate the seal, reducing adhesion and corrosion resistance

ANALYSIS:

- Add 10 mls of the **Dev-Seal Armor** solution into a 250 ml. Erlenmeyer flask.
- Add approximately 100 mls DI or RO Water
- Add 2 to 3 drops of phenolphthalein indicator solution.
- Titrate with 1.0 N Hydrochloric Acid; End pt: pink → clear.

Calculation: Mls 1.0 N HCl x 11.3 = % **Dev-Seal Armor**.

Read Material Safety Data Sheet before using this product.

DISCLAIMER:

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