



HITEK
ELECTRONIC MATERIALS LTD

Application of VpCI CorrVerter

I. PRODUCT DESCRIPTION

VpCI CorrVerter

CorrVerter is a water-based rust converter and primer recommended for application to rusty or poorly prepared steel surfaces where further corrosion protection is required and good surface preparation is difficult to achieve. CorrVerter is formulated to penetrate rust, eliminate rust, penetrate to the bare metal, and stop further rusting.

II. REQUIRED SURFACE PREPARATION

Previous coatings should be removed, as CorrVerter is designed to penetrate corrosion, but not other coatings. If CorrVerter is being applied over an existing coating, the previous coating should be tested for adhesion and all loose sections should be removed. Also CorrVerter should be tested for adhesion to the existing coating. For best results loose sections of scale and corrosion should be wire brushed or washed with high-pressure water to remove excess salt contamination.

III. APPLICATION

CorrVerter can be used as a converting coating and a primer. When solvent-based topcoats are applied over CorrVerter, compatibility must be checked.

Conditions:

- A. Dew Point: Make sure dew point is more than 5°F (2°C) less than air temperature for application.
- B. Application Temperature:
 - The temperature should be above 55°F (12.8°C) and below 100°F (38°C) when applying the coating.
 - The temperature range is for the liquid coating. If the air temperature is greater than 100°F (38°C), or lower than 55°F (12.8°C), measures should be taken to ensure that the temperature of CorrVerter is within this range. The metal that is being coated needs to maintain a minimum temperature of 55°F (12.8°C), and a maximum temperature of 150°F (66°C).**

- C. **Mixing:** Power agitate to a uniform consistency using a “squirrel cage” type mixer, hand-held drill mixer, or other equivalent method.

- D. CorrVerter can be applied by roll, brush or dip. Spray is not recommended as it does not allow the CorrVerter to penetrate the corrosion.

IV. PHYSICAL CHARACTERISTICS

- A. **Wet and Dry Film Thickness:**
A wet film thickness of 3.0 to 5.0 mils (75-125 microns) is suggested to achieve a proper dry film thickness and to convert all the corrosion present on the surface. It is recommended that film thickness is monitored in critical areas to make certain a minimum of 2 mil dry film thickness is obtained. The best way to achieve this is using a dry film gauge (either magnetic or electronic). It may also be acceptable to use a wet film gauge to make sure that a wet film thickness of 4.0-4.5 mils (which will yield 2 mil DFT). For badly corroded surfaces a second coat may be necessary to ensure all corrosion is converted and the surface is properly coated.

- B. **Dry Time**
At 70°F (21°C) and 50% relative humidity CorrVerter will become dry to the touch in 45-60 minutes. The product will be topcoat able in 8-12 hours and fully cured is 4 days.

VI. NOTES FOR SPRAY APPLICATIONS

1. Make sure minimum surface preparation conditions are met (as stated in section II).

2. Make sure application equipment is clean, and free of solvents, or other contaminants.

3. Properly mix the CorrVerter as stated in section III.C.

4. Ensure that the application conditions meet the conditions stated in section III.A, III.B and III.E.
5. For vertical surfaces, a wet film thickness of less than 5 mils is recommended to prevent sagging.
6. If a second application is necessary, wait 20-30 minutes before applying.
7. Allow coating to dry for 8-12 hours at previously mentioned conditions prior to applying topcoat.



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