# How VCI Works

#### VCI PROTECTION IS A FUNCTION OF:

- Which Metals are in need of corrosion protection.
- Corrosion inhibiting chemicals used and their effectiveness on the metals.
- Ratio of chemicals in the formulation.
- Amount of VCI on the paper or in the film
- pH of the finished product.
- Water solubility and the effectiveness of the corrosion inhibitor in the presence of moisture and/or high humidity.
- Natural neutral kraft paper or polyethylene film used as the carrier for the VCI.
- The overall packaging design and the conditions expected during packing, shipping and storing.

# **Packaging Design Criteria**

- Type of metals in need of protection
- Length of protection required
- Domestic or export
- Climate conditions
- Size and weight of product
- Value of the product
- Current packaging requirements
  - Handling
  - Automatic or manual
- Chemical or oil residue on the metal
- Processing and cleaning methods
- Packing station location relative to other processes

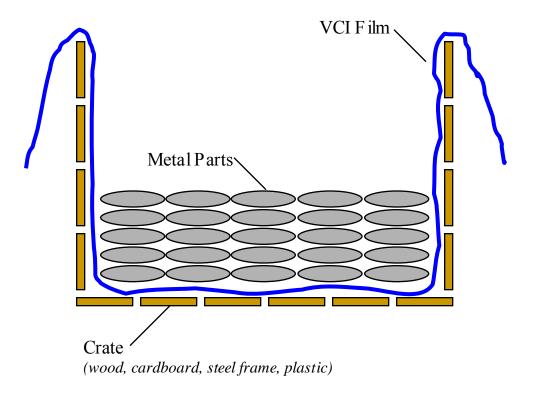




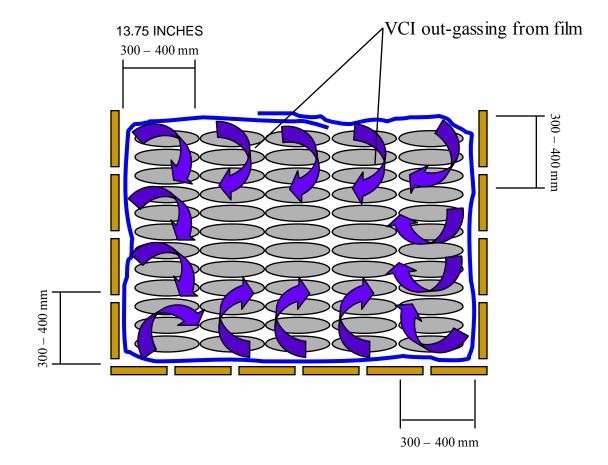
- Daubert VCI works well through water and humidity.
- An excellent compliment to R-P oils.
- Printing should face away from the metal



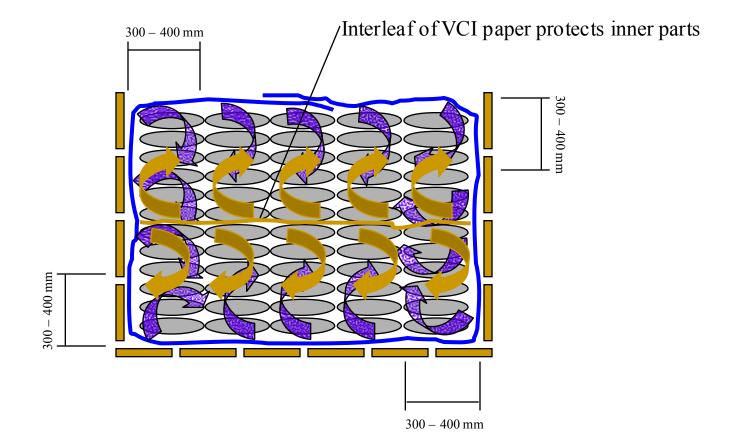
Example: Brake Discs or Clutch Plate Bulk Packaging





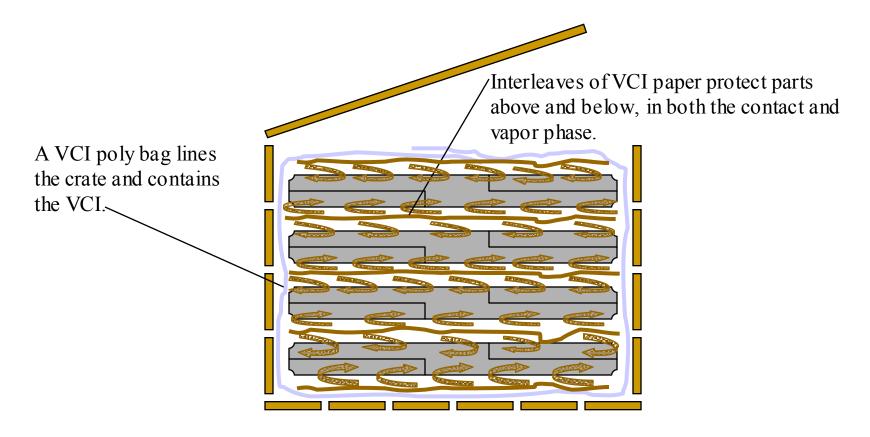


#### DAUBERT VCI, INC.



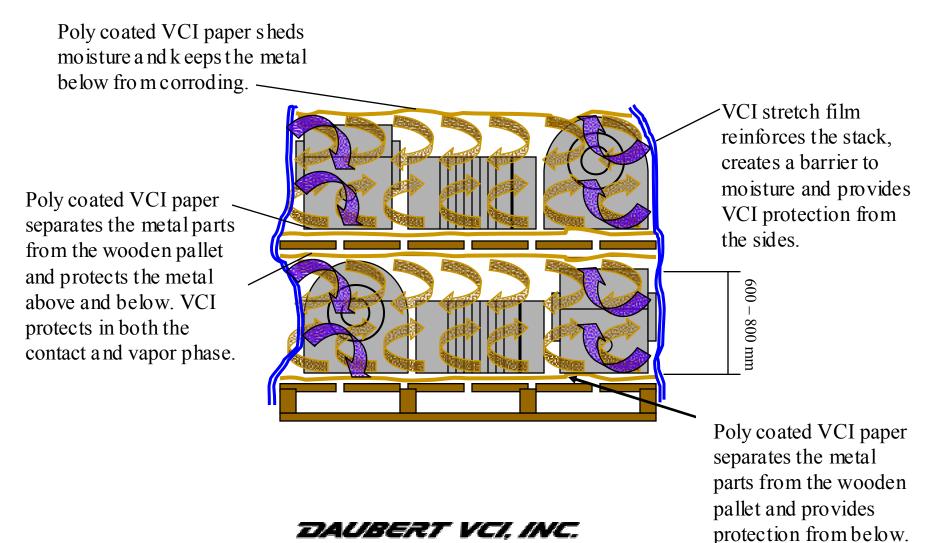
#### DAUBERT VCI, INC.

Example: Packaging of large stampings

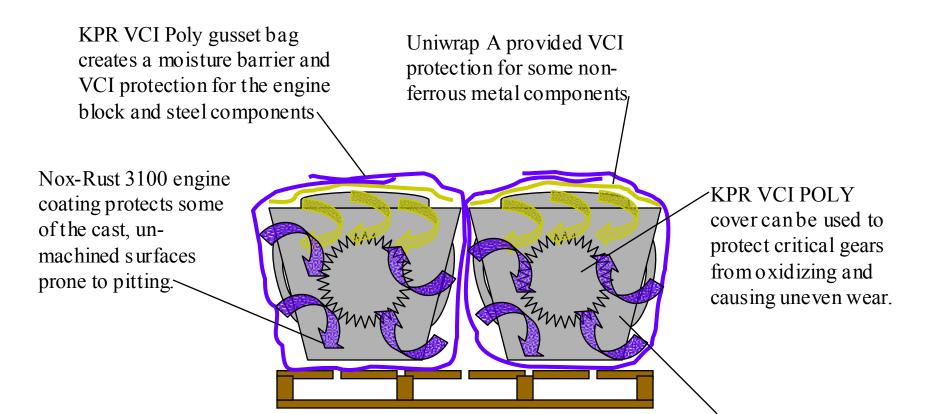


DAUBERT VCI, INC.

Example: Electric Motor Housings and Assemblies

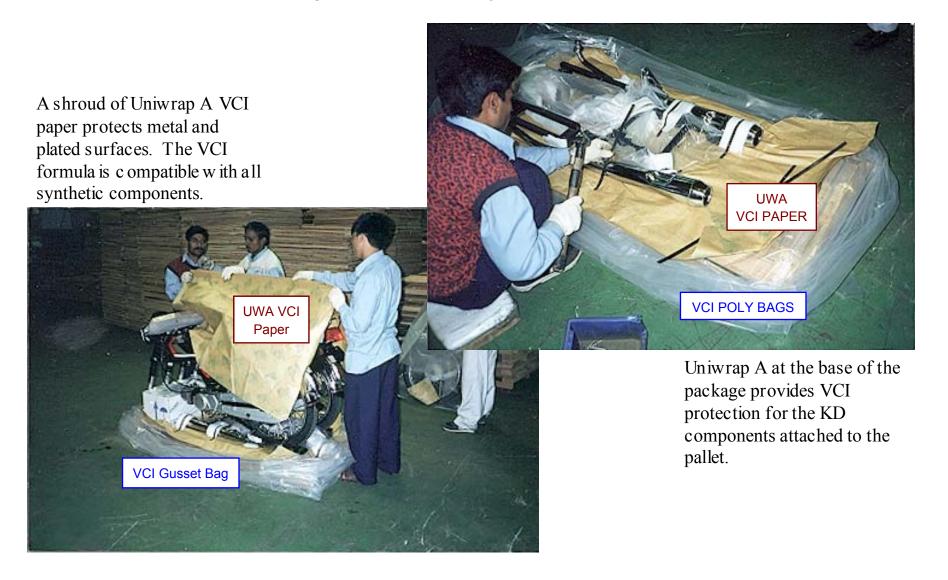


10 year Engine Lay-up and Storage

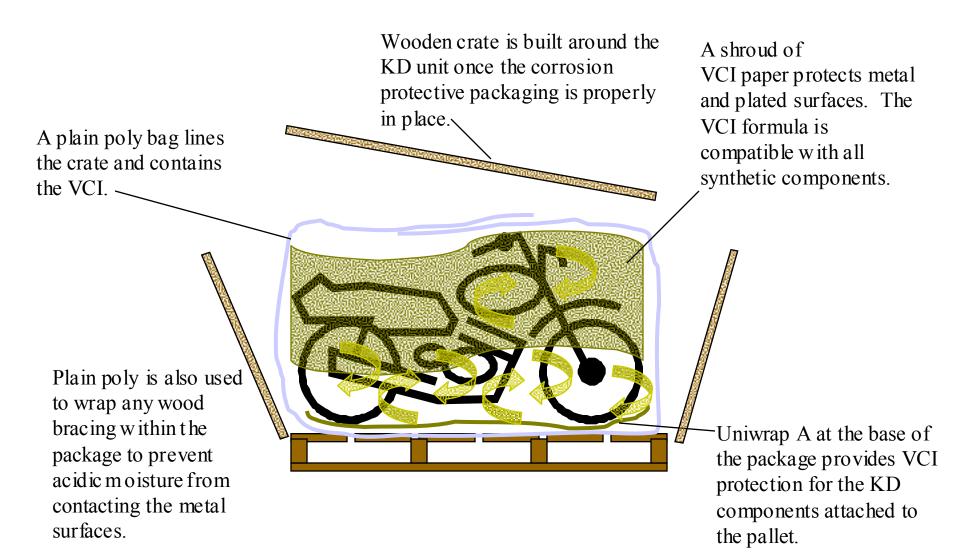




#### Export Packing of CKD motorcycles in India

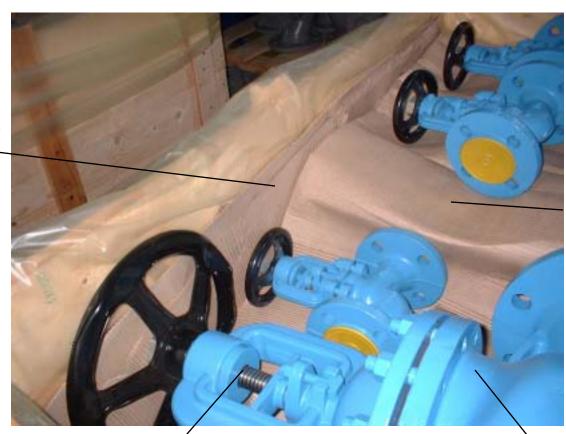


#### Export Packing of CKD motorcycles in India



Mechanical and Corrosion Protection of Pumps and Valves Example of INCORRECT Packaging

In this design VCI is prevented from reaching the metal surface by the corrugated separator.

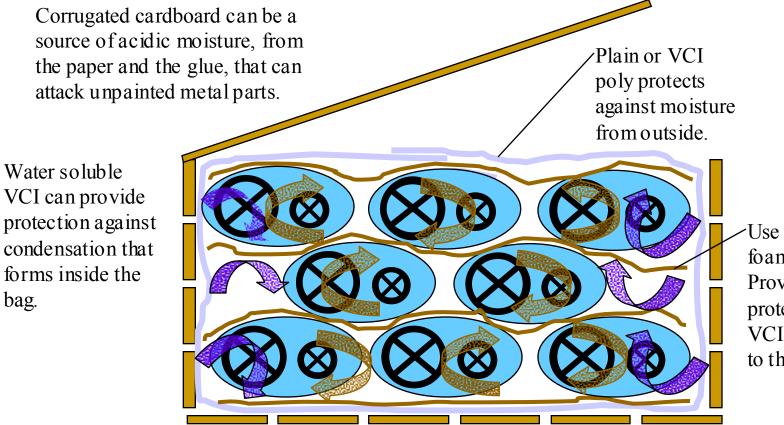


Corrugated cardboard separators used as cushioning can be a significant source of corrosion.

Exposed metal components susceptible to corrosion.

Painted surfaces don't require VCI protection and the VCI does not affect them.

Mechanical and Corrosion Protection of Pumps and Valves Example of CORRECT Packaging



 Use VCI paper or foam as a separator.
Provides mechanical protection and the VCI has free access to the metal.

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