



## **PRODUCT TECHNICAL DATA SHEET**

**PRODUCT NAME - SPC VCI MASTERBATCH**

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**INTRODUCTION TO CORROSION:**

Corrosion is the major problem for metals all over the world. Corrosion directly affects the life span of parts and assemblies and also the finished goods made out of metal. Therefore corrosion has direct impact on the costing and efficiency of the finished goods. Millions of rupees are lost every year due to the corrosion and rusting of metal. Corrosion is the process by which metal either degrades or destroyed through reaction with the environment. Most of the metals cause corrosion due to moisture, water, acids, salts and many other chemicals present in the atmosphere.

**USAGES OF SPC VCI FILM:**

SPC VCI Masterbatch is nitrite & heavy metal free and mainly used to protect metals like mild steel, aluminum, Copper, Zinc, Galvanized steel, & Tin plate, etc. SPC VCI Masterbatch contains chemical concentrate used in pellet form .The anticorrosion Masterbatch could be blended with many resins like LDPE, LLDPE, and HDPE & PP to form a varied range of anti-corrosion packaging system.





**FUNCTIONS:**

When SPC VCI Masterbatch is incorporated with polymer system, the finished Product thereafter would have corrosion protection by releasing vapor's which form a monomolecular protective layer on the surface of the metal part. This Protective layer remains until the package is opened & then evaporates leaving a clean metal surface.



**BENEFITS OF SPC VCI MB:**

- It provides effective corrosion protection to a wide range of metal products
- It is user friendly.
- It can be used for varied range of polymer system.
- It is non hazardous.







### AREAS OF USE OF VCI MATERIAL:

- **Automobile Industry:** Packaging of Spare Parts, Components
- **Metal Coils and wire & cable Industry:** Packaging of Steel, Aluminum, Copper Brass, Zinc, Bronze, Silver etc.
- **Metal Components Industry:** Machined Castings, pistons, Crank Shafts, Bearings, Dies, gears
- **Hardware:** Packaging of Tools, Screws, Nuts, Bolts
- **Medical:** Packaging of Surgical Blades, medical equipments
- **Defense:** Packaging of arms and ammunitions, Military equipments, fire instruments
- **Export packaging Industry & etc.**





### SPECIFICATION OF THE PRODUCT:

<b>Physical Status</b>	<b>Pellet Form</b>
<b>Melt Flow Index</b>	<b>40g/10min (+/-10)</b>
<b>Carrier:</b>	<b>LLDPE</b>
<b>p H</b>	<b>7-8</b>
<b>Colour</b>	<b>Blue, Natural</b>
<b>Density</b>	<b>0.9-1g/cm</b>
<b>Heavy Metals</b>	<b>None</b>
<b>Nitrite</b>	<b>None</b>
<b>Dosage</b>	<b>3-6%</b>

- Since the end use of this VCI Masterbatch is beyond our direct control, we expect that the customers satisfy themselves that the end use product is suitable for the intended application.
- Base resins are chosen dependant upon end use application and polymer blend.
- Shelf life of this product is expected to be 2 years if stored unopened in dry ambient conditions