



## **FOUNDRY FILM™**

### **Forged to Protect**

### **Frequently Asked Questions**

#### **What is it?**

ARMOR FOUNDRY Film™ is a clean and dry packaging material that protects metal in two ways. FOUNDRY Film serves as both a physical barrier to protect metal from dirt, dust and moisture and as a rust preventative through the use of ARMOR's proprietary VCI (vapor corrosion inhibitor) Nanotechnology™. The film contains ARMOR's VCI, which emits vapors that adhere to the surface of the metal to form an invisible protective layer that protects metal from rust and corrosion.

FOUNDRY Film is specifically designed to protect metal castings, stampings, forgings, process metals or other combinations of metals in the harsh conditions present in metal foundries, stamping plants, machine shops and other metal processing facilities. ARMOR constructed this film for strength and puncture resistance; from a portion of recycled materials to offer cost savings; and in a select shade of gray to camouflage metal dust and metal imperfections. Put simply, ARMOR FOUNDRY Film is Forged to Protect!

#### **What makes FOUNDRY Film so well-matched for use in the metal processing industry?**

- Replaces hazardous oils, flammable solvents, sticky RPs
- Constructed for strength and puncture resistance
- Designed exclusively to combat the hot/humid conditions of the metal processing industry
- Prevents rust on gray iron castings, ductile iron, stampings/process metals from bar stock, cold rolled steel, hot rolled steel, and other metal combinations while in storage, in process, or in transport
- Ideal for small or odd-shaped metal pieces (when used as a sheet, bag, bin liner)
- Protects metals for up to 3 years dependent upon proper use and the environment

#### **What are the key features and benefits?**

- Designed exclusively for the unique environmental conditions of foundries/metal processing plants
- Easy to use--place clean metal pieces in FOUNDRY Film-lined bin and close when finished
- Dual protection-film offers combined benefit of barrier and rust prevention protection
- Keeps metal clean and free from corrosion
- Produced in dark gray to conceal metal dust and other imperfections
- Made from a combination of recycled ARMOR POLY® VCI film and virgin ARMOR resin
- Use of recycled materials allows for economical pricing
- Formulation is non-toxic and environmentally friendly
- ARMOR patented Bright Idea Technology™ provides visible proof of VCI



### **What are the advantages of using recycled materials to make FOUNDRY Film?**

To produce FOUNDRY Film, ARMOR uses remnants collected during the manufacturing of its ARMOR POLY® VCI film. These remnants, are collected and recycled as part of the composition of FOUNDRY Film. The recycled VCI is combined with new ARMOR resin and the result is a film that has maximum strength and VCI content. Using recycled VCI allows ARMOR to reduce its operational waste; decrease the cost of FOUNDRY Film; and offer an eco-friendly product with enhanced VCI protection.

### **How long will FOUNDRY Film protect metal from rust?**

ARMOR FOUNDRY Film is available in multiple forms (sheets, bags, bin liners) -- all are designed to cover or wrap metal pieces. As part of the film's composition, ARMOR VCI is continuously emitted to create a safe, protective environment that blocks out rust, corrosion and oxidation. When used properly, FOUNDRY Film protects metal from rust and corrosion for up to three years. If worksite conditions are extreme in temperature, humidity, airflow, or surface condition of metal to be wrapped, the length of protection can be reduced. If planning to use FOUNDRY Film for long-term storage, it is important to test metal pieces and packaging as extensively as possible and consult an ARMOR professional for assistance.

### **What is the storage shelf life of unused FOUNDRY Film?**

Unused film in form of sheets, bags or bin liners, has a shelf life of two years from the date of manufacture when stored in original packaging. Rolls of film have a longer shelf life of three years from the date of manufacture when stored in original packaging. For best results, do not leave FOUNDRY Film in an open environment; store in original packaging or enclosed inside a container to ensure VCI vapors are contained and remain in packaging.

### **How should FOUNDRY Film be stored?**

Film should remain in its original outer wrapping during storage of partial rolls or sheets (overnight, weekends, or holidays). Storage in an enclosed container will assist in containing and preserving rust-preventing VCI vapors.

As temperature and humidity levels increase, the rate of the volatilization of the chemicals contained in the packaging also increases, reducing the effectiveness and longevity of the product. Product should be stored in a dry environment with temperatures between 40°–110°F (5°-43°C).

### **Is it Reusable?**

ARMOR FOUNDRY Film should not be re-used, doing so could result in rust and corrosion of metal. Re-use of film eliminates the ability to properly track the length of time film has been exposed to heat/humidity which greatly impacts film's effectiveness. ARMOR cannot guarantee the amount of VCI that remains in its FOUNDRY Film upon re-use.