



# Technical Bulletin

# 119

## ARMOR WRAP® Global Paper

ARMOR WRAP® Global (G) Paper is ARMOR Protective Packaging's® newest VCI nanotechnology. It will have the product name designation of "G" due to the fact that it meets all international content standards specified by specific countries around the globe.

### PRODUCT

#### *ARMOR WRAP® Global Paper*

- **CONFORMS:** Meets international content standards
- **MULTI-METAL:** Is a true Multi-Metal (ferrous and most other metals)
- **BETTER PERFORMANCE:** Has improved corrosion inhibiting performance compared to "R" and "MPI" formulas, as well as all competitors' current papers
  - Specifically, the "G" formulation has far superior vapor phase protection compared to current ARMOR papers and all competitors
- **EASY:** Reduces the number of papers you will need for ferrous and non-ferrous protection since it works on most metals



### AVAILABILITY

ARMOR WRAP® Global formula is available in the following papers:

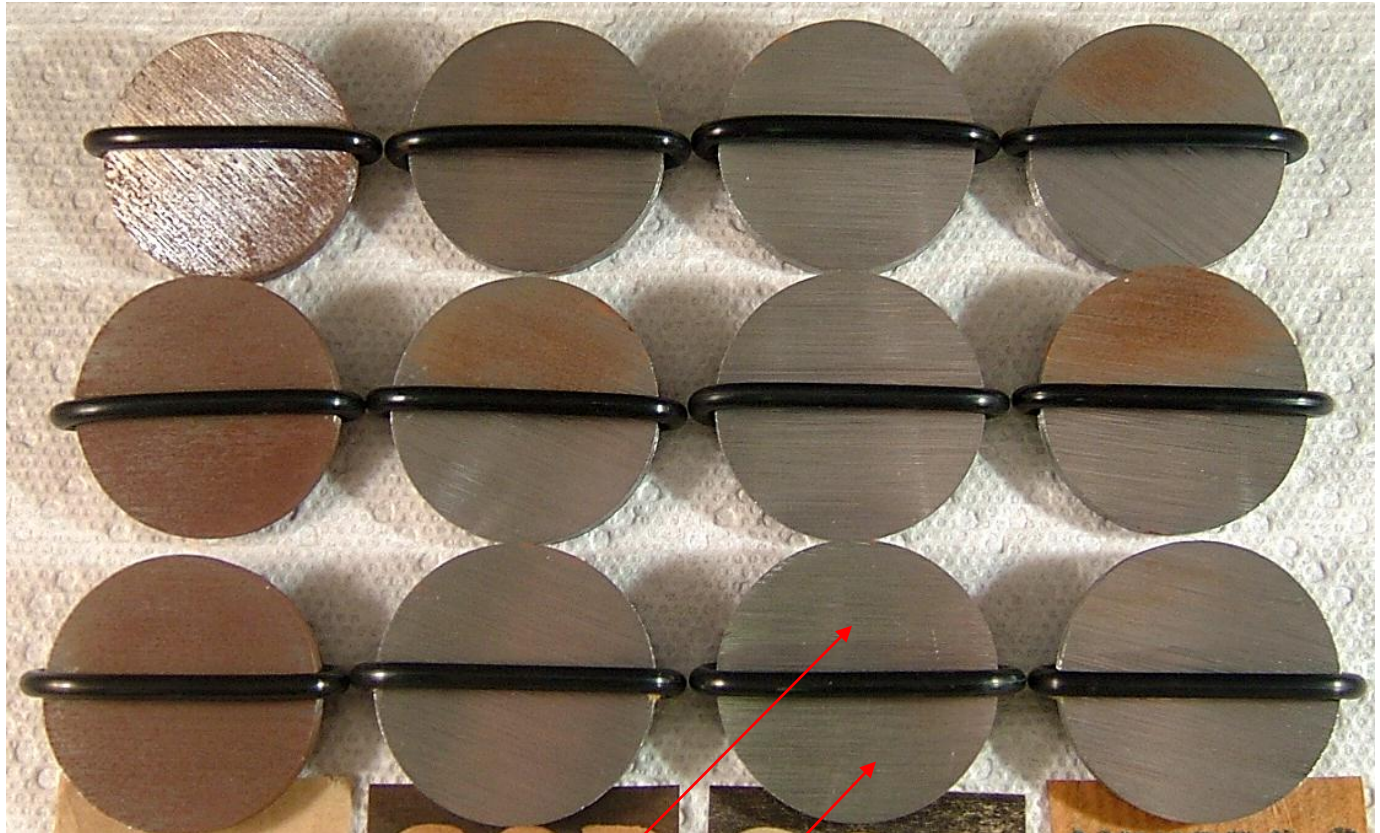
- ARMOR WRAP® 30G
- ARMOR WRAP® 30G Wax
- ARMOR WRAP® 35G
- ARMOR WRAP® 60G
- ARMOR WRAP® 35PC (G)
- ARMOR WRAP® 60PC (G)

### TESTING

ARMOR WRAP® 30G Paper has been thoroughly tested for two years in the ARMOR labs under accelerated humidity testing as well as in the field for select applications. Test results are overwhelming positive in the outstanding performance of the "Global" paper compared to both the current "R" formulation and all major competitors. In particular, the vapor phase protection of the global formula is far superior to the leading competitive papers in the industry and even to the current ARMOR "R" formulation.



# Technical Bulletin



**Non-VCI Control**

**ARMOR Wrap® 30R**

**ARMOR Wrap® 30G**

**Competitor VCI Paper**

**Vapor Corrosion Area of Test Piece**

**Contact Corrosion Area of Test Piece**

ARMOR WRAP® Global Paper protects all ferrous metals as well or better than the current “R” formulation. It performs nearly as well as the “MPI” formulation on the “yellow metals” such as brass, bronze, copper and zinc. Overall, it can be utilized for nearly any typical application that the “R” or “MPI” formulations are currently used.

See the compatibility chart below for a complete review of the ARMOR formulas.



# Technical Bulletin

## Compatibility Chart Volatile Corrosion Inhibiting Solutions and Paper

R - Paper & ARMOR VCI LIQ101

MPI - Paper & ARMOR VCI LIQ200

Global - Paper & ARMOR VCI LIQ301

Metal to be Protected	Paper Formula		
	R - VCI101	MPI	Global
Aluminum	○○	★★	★★
Aluminum Bronze	○○	★★	★★
Aluminum Magnesium alloy	○	○	○
Brass	○○	★★★	★★
Bronze	○○	★★★	★★
Cadmium	○	★★★	★★
Cast iron	★★★	★	★★★★
Chromium	○	★★	★★
Constantan	○○	★★★	★★★★
Copper	○○	★★★	★★
Galvanized	○○	★★★	★★
Lead	○	○	○
Molybdenum	○○	○○	○○
Nickel	○○	★★★	★★★★
Nickel Silver (CU, Ni, Zn)	○○	★★★	★★
Silver	○○	★	○
Solder (Pb, Sn)	○	○	○
Steel	★★★	★★	★★★★
Tin (Pure)	★★★	★★★	★★★★
Tinned Steel	★★★	★★★	★★★★
Zinc	○○	★★★	★★

### Compatibility Key

★★★ Complete Protection

★★ Good Protection

★ This product will protect this metal from corrosion; however a more suitable formula may be available.

○ Testing is recommended

○○ Not compatible

Published by: ARMOR Protective Packaging Technical Services, May 14, 2012

F:Product Standards/Technical Bulletins