



Corrosion Management Solutions



RUST PREVENTION

CORROSION MANAGEMENT SOLUTIONS



ARMOR POLY FILM®

Crusader™ Film

FEATURES AND BENEFITS

ARMOR film technology sets industry standards for high performance and innovation. ARMOR's proprietary Bright Idea Technology™ provides visible proof under black light that VCI is present in all **ARMOR POLY®** products.

The **CRUSADER™** is a tough co-extruded VCI film for the most demanding corrosion inhibiting applications.

The **CRUSADER™** utilizes three layers of film with specific characteristics used to prevent corrosion, provide additional barrier protection, and increase durability and puncture resistance over mono-extruded VCI films.

The multi-layer film system results in a 80% decrease in oxygen transmission (5x barrier protection) compared with standard film.

ARMOR's proprietary VCI nanotechnology comes with over 30 years of industry experience.

With service on 4 continents and in more than 25 countries, ARMOR is positioned to provide corrosion management solutions wherever and whenever you need them.



APPLICATIONS

CRUSADER™ Premium VCI film is tough, superior corrosion inhibition with excellent barrier properties for export shipments. It is ideal for metal parts or equipment that needs to be stored corrosion-free for several years and/or re-used multiple times within a closed-loop shipping cycle .

Non-toxic, environmentally friendly, and recyclable.

WHY ARMOR?

ARMOR Protective Packaging® provides the industry's cleanest, easiest, safest and most effective corrosion management systems for metal products to a global customer base. ARMOR's full line of vapor corrosion inhibitor (VCI) packaging products, desiccants and our rust removal and prevention liquids are designed to protect metals before, during and after transport or storage. ARMOR's industry reputation as a trusted business partner has been built by serving our customers and preserving their investments for more than a quarter-century.



TECHNICAL DATA

ARMOR PROTECTIVE PACKAGING CORROSION MANAGEMENT SOLUTIONS

THE CRUSADER™

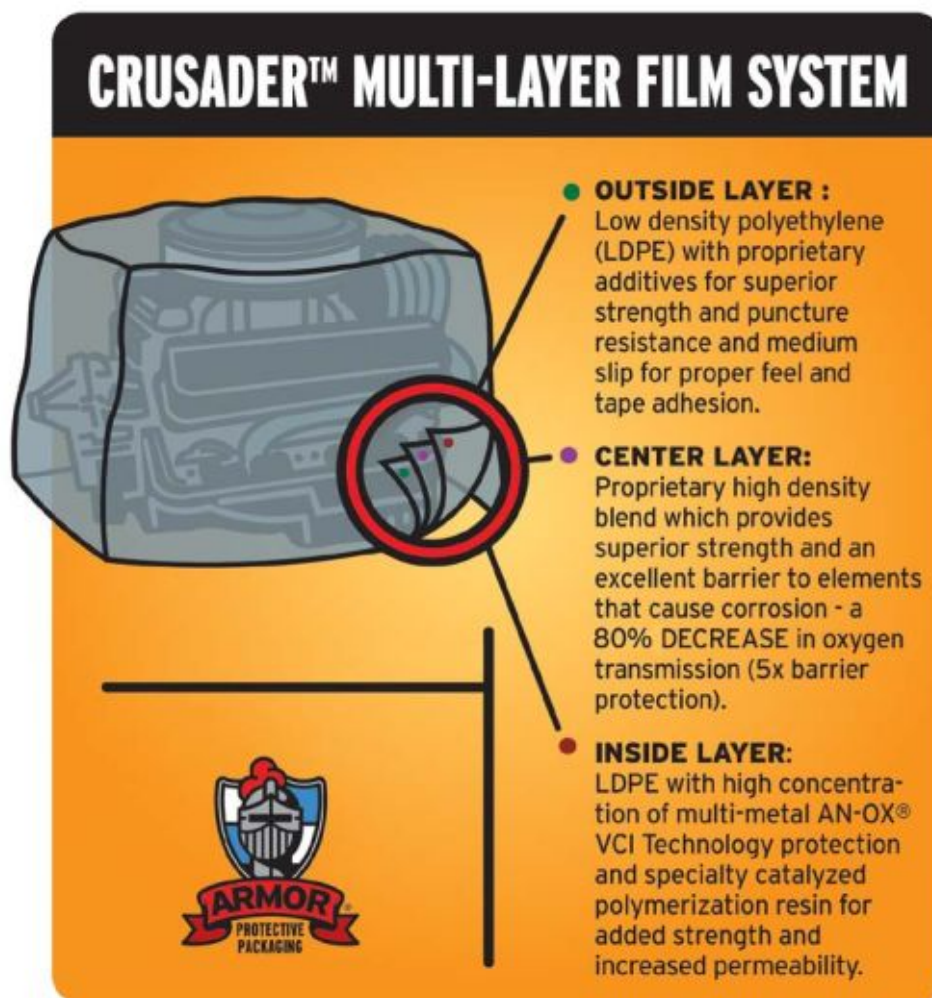
Product Overview

The CRUSADER™ utilizes advanced polyethylene film extrusion to form a construction of three engineered layers that provide increased durability and outstanding corrosion inhibition.

Outside Layer: Low density polyethylene with super hexene for added toughness and medium slip for proper feel and tape adhesion.

Center Layer: Proprietary high density polyethylene barrier resin provides superior strength and an excellent barrier to elements that cause corrosion.

Inside Layer: ARMOR POLY® VCI – Linear low density polyethylene with high concentration of multi-metal VCI and specialty catalyzed polymerization resin for added strength and increased permeability.



TECHNICAL DATA

ARMOR PROTECTIVE PACKAGING CORROSION MANAGEMENT SOLUTIONS

THE CRUSADER™

Physical Data

THICKNESS (range available)		100 microns	150 microns
TENSILE STRENGTH - ASTM TEST #D-882			
Machine Direction	(MPa)	37	47
Transverse Direction	(MPa)	34	45
TEAR STRENGTH - ASTM #D-1922			
Machine Direction	(grams)	1,000	1,150
Transverse Direction	(grams)	1,900	2,100
ELONGATION – ASTM #D-882			
Machine Direction	(%)	800	950
Transverse Direction	(%)	1,000	1,150
TYPE OF VCI COMPOUND		Proprietary VCI Content	

Disclaimer : The values mentioned above are typical. Actual value of the products will vary within a specified range

Proper Storage

Material should be kept in original wrapping or equivalent during storage of partial rolls or sheets (overnight, weekends, or holidays).

ARMOR Protective Packaging® recommends testing your product's compatibility with the Crusader® in vapor phase and as a contact inhibitor.

CAUTION: Wash hands thoroughly after handling this product and before eating.