

TOWERS, AND VCA EVAPORATIVE CONDENSER COLD WATER BASINS



Corrosion Protection System





ULTIMATE IN MATERIAL ADVANCEMENT

What is BAC's TriArmor® Corrosion Protection System?

It is a material of construction consisting of G-235 Galvanized Steel, Thermosetting Hybrid Polymer and a proprietary Polyurethane Barrier. This unique combination results in the new, patent-pending TriArmor[®] Corrosion Protection System. The TriArmor[®] System provides the ultimate in corrosion resistance at an affordable price.

The TriArmor[®] Corrosion Protection System is a **TRIPLE PROTECTION PROCESS** consisting of:

- **G-235 Galvanized Steel** the heaviest commercially available galvanized steel which provides a durable structure to the system
- Thermosetting Hybrid Polymer electrostatically applied to both sides of the G-235 Galvanized Steel, providing a second layer of protection from corrosion. This material also serves as a mechanical and chemical bonding agent between the Polyurethane Barrier and the Galvanized Steel
- **Polyurethane Barrier** factory applied, corrosion resistant impermeable armor



The TriArmor[®] Corrosion Protection System has been introduced after a decade of extensive R&D and field testing. This new material has consistently demonstrated the following characteristics:



Compare the Factory Installed TriArmor[®] Corrosion Protection System Advantages:

	Test	Galvanized Steel	Type 304 Stainless Steel	Type 316 Stainless Steel	TriArmor [®] Corrosion Protection System	Good
Corrosion	Acid Test pH=4	0				
	Alkaline Test pH=11	0				Better
	Chloride Levels	0	\bigcirc			
	5% Salt Spray Test	0	\bigcirc			Excellent
Environmental	UV Resistance					
	Thermal Shock					Superior

SUPERIOR CORROSION RESISTANCE

EXCEPTIONAL PRICE PERFORMANCE

The TriArmor[®] Corrosion Protection System has been specifically designed for evaporative cooling applications to provide the best corrosion resistant material available in the marketplace.

This revolutionary material of construction has been subjected to accelerated testing to simulate years of operation in the harshest environments. Additionally, this system has performed successfully for a decade at customer installations. The TriArmor[®] Corrosion Protection System is:



- Unsurpassed in corrosion resistanceImpervious to chloride attack



• Formulated to resist UV damage



• Environmentally friendly, containing no solvents, volatile organic compounds (VON), or chlorofluorocarbons (CFC).

• Backed by a 5-year leak and corrosion warranty

The TriArmor[®] Corrosion Protection System offers superior corrosion resistance compared to Type 304 and 316 Stainless Steel, but at a lower first cost.

- Factory applying the TriArmor[®] Corrosion Protection System using BAC's lean, ISO certified manufacturing process reduces manufacturing costs while maintaining high product quality
- Triple protection provides extended material life which is backed by a 5-year leak and corrosion warranty
- Tough and durable finish won't crack, peel or warp under the harshest conditions, minimizing the cost of ownership



Average Cold Water Basin Material Price



PROVEN ENGINEERED PERFORMANCE

REQUIREMENTS	TEST	RESULTS
	Submersion in Acidic (pH4) Solution	TriArmor® Corrosion Protection System 316 Stainless Steel 304 Stainless Steel Galvanized Steel 0 1000 2000 3000 4000 5000 6000 HOURS TO FAILURE
Corrosion Resistance	Submersion in Alkaline (pH11) Solution	TriArmor® Corrosion Protection System 316 Stainless Steel 304 Stainless Steel Galvanized Steel 0 1000 2000 3000 6000 HOURS TO FAILURE
	Submersion in Chloride (1,000 ppm) Solution	TriArmor® Corrosion Protection System 316 Stainless Steel 304 Stainless Steel Galvanized Steel 0 1000 2000 3000 4000 6000 HOURS TO FAILURE
Thermal Shock	Temperature Shock Cycles from -40° F to 175° F	The TriArmor® Corrosion Protection System maintains its durability after rigorous testing.





Insist on the TriArmor[®] Corrosion Protection System for your next evaporative cooling equipment project.







Baltimore Aircoil Company