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High Performance Aluminum Pretreatment

Mayne Coatings Corp. is committed to Quality Products from start to finish.

Often companies are serious about the look and appearance of the coating on their product but not with what is underneath, a critical component of how well the product will perform long-term.

Mayne partnered with WestChem Technologies of Calgary, Alberta to provide a patented chemical treatment for aluminum to meet the most stringent coating performance requirements in the powder coating industry.

Our new state of the art coating system took a year in the conceptual stage with industry consultants from different fields to cover every detail of its design.

The process consists of a series of steps in which the aluminum is put through consisting of an Alkaline Clean & Etch followed by a fresh water rinse, a subsequent secondary Acid Etch the combination of which provides not only an extremely clean surface but a surface which is highly affinitive for bonding of paint. This is again followed by a fresh water rinse (Reverse Osmosis) Combining the Alkaline and the Acid Pre-Cleaning and Etch does not offer the easiest and cheapest but it does ensure the best overall approach to dealing with the wide metal surface conditions experienced today in metal fabrication.

Followed by these steps a further rinse and Patented Dry In Place mist Sealer (E-CLIPS) is applied specifically made for aluminum. Uncontaminated Purified RO water is used in the make up of this all important bath. This last step adds a dramatic increase in the corrosion resistance of the coating.

The patented process meets the American Architectural Manufacturing Associations most rigorous specification for Coating Performance AAMA 2603/2604 and 2605.

We back the system and chemistry up with extensive Application Training and a QA Program documenting all functions of the operation assuring our clients of consistent results with every part processed. This is also backed by daily in house testing.

Mayne Coatings is also very committed to being environmentally conscious and our pretreatment process while meeting the most severe requirements is the most environmentally friendly system available on the market today containing no chromates which unfortunately while very hazardous, are still widely used today.

We understand that it takes a complete approach in order to meet our client's requirements so this is why we insist that our pretreatment system, its chemistry, maintenance and control will never be compromised.

Document provided with permission from:

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