



# Technical Process Bulletin

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P3® PROTECTIVE COATING 2488

## 1. Introduction:

P3 Protective Coating 2488 is a water-based, zero VOC, alkaline removable polymeric material designed for application on aluminum, steel, plastic and many other substrates. The P3 Temporary Protective Coating is designed to protect various materials against environmental and physical damage. The surfaces to be coated may be bare, conversion coated, plated or painted and will not be affected by the coating.

P3 Protective Coating 2488 is designed to protect environmentally sensitive substrates and finishes from damage caused by acid rain, humidity, salt, bird and insect droppings, vehicle fluids and metallic fallout. P3 Protective Coating 2488 will also prevent against scratching, scuffing or other types of minor physical damage. The coating is mainly used to protect during shipment or when protection is needed for long term storage.

P3 Protective Coating 2488 can be supplied in a clear or green version which allows for better application control. The product is slightly viscous which allows for good film build in all spray configurations.

## 2. The Process:

P3 Protective Coating 2488 is used as received and no thinning is required. The coating may be applied by roller, brush or dip application, however the preferred method of application is by air atomization or air-less spray technologies.

The surface should be clean and dry prior to the application of P3 Protective Coating 2488. The product should be sprayed in such a manner as to provide a finely atomized spray so that the entire part is brought up to the proper uniform film build. This will prevent runs and sags on materials that require heavy film builds. The recommended minimum film build is 0.3 mils (7.6 :m). The maximum film build may depend on the protection required and the application parameters.

The dry time of P3 Protective Coating 2488 can be as little as a few minutes for 0.3 mils, heavier coatings will require more time. Drying time is also affected by temperature and humidity conditions. The drying process can be shortened by the use of ovens, hot air, IR or multiple spray zones with flash off between applications.

3. Materials:

P3 Protective Coating 2488  
Application equipment

4. Equipment:

P3 Protective Coating 2488 can be spray applied using air-atomized, air-assisted airless and airless spray equipment. The required pressures and orifice size will depend on individual applications. General starting points for typical air atomized and airless spray systems are as follows:

Air atomized spray system: Spray gun, hose and pressure pot with regulator. Orifice size can range from 0.025 to 0.070 inches depending on application requirements.

Airless spray systems: Airless pump with regulator, high pressure hose and spray gun. Orifice size can range from 0.010 to 0.025 inches depending on application requirements.

Our sales representative will evaluate your application and recommend an appropriate system.

CAUTION: Airless equipment can be extremely hazardous to operate. It is recommended that all precautionary information regarding the operation of an airless unit be read, understood and followed.

If accelerated drying is needed, specific equipment will have to be selected based on the application and plant requirements.

5. Storage Requirements:

P3 Protective Coating 2488 is a waterbased product and therefore should be protected from freezing. The product should be used within 1 year of manufacture.

Bulk storage tanks should be constructed of stainless steel, glass lined carbon steel, glass fiber reinforced polyester, or epoxy or phenolic coated carbon steel.

6. Waste Disposal Information:

Applicable regulations covering disposal and discharge of chemicals should be consulted and followed.

Disposal information for the chemicals, in the form as supplied, is given on the Material Safety Data Sheet.

7. Precautionary Information:

When handling the chemical products used in this process, the first aid and handling recommendations on the Material Safety Data Sheets for each product should be read, understood and followed.

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