



COATINGS FOR INDUSTRY, INC.

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manufacturers of



# Aseal 590

## Description

Aseal 590 is a two component high temperature lubricative coating composition. The purpose of this coating is to reduce friction and prevent galling and seizing. Aseal 590 can also function as an anti-stick sealer over Aseal 500, 518, and 519. Aseal 590 Part A is a fluorocarbon which is combined with Part B, an inorganic binder.

## Surface Preparation

Surface should be grit blasted using clean aluminum oxide. Surface must be free of all oil, grease and other contamination.

## Application

Thoroughly mix Part A with Part B. Volumetric ratio of A to B is normally 1 Part A to 2 Parts B. However, ratio may be varied in accordance with need and type of application. Increase amount of Part A (Teflon) to Part B (Binder) to achieve greater lubricative properties.

Apply coating using standard siphon feed spray gun as used for lacquer type materials. A light mist coat should be applied first, then followed with a heavier coat. This coating system is applied in thin film. After spraying, it should have a uniform wet glossy appearance. Coating film should be allowed to air dry for approximately ten (10) minutes.

## Curing Procedure

After air dry, parts should be oven dried at 175° F. for a minimum of 20 minutes. Final cure is achieved after surface temperature of part reaches 600° F. and part is held at this temperature for 30 minutes or at 700°F. for 10 minutes.

## Removal of Coating

If it should be necessary to remove the cured coating, it can be stripped by grit blasting or immersing in a hot (approximately 150° F.) caustic solution then lightly grit blasting. Area should be well ventilated.

## Toxicity

Contains phosphoric acid and a small amount of chromic acid which are toxic. Normal precautions should be taken against ingestion, inhalation, and contact with eyes. Precautions should be taken to ensure that the wet compound does not come in contact with sores or cuts.

## Precautions

Contains Dichromate. Normal precautions should be taken for handling of acidic materials. Avoid ingestion. **Harmful or fatal if swallowed.** Avoid inhalation of spray mist and contact with eyes. In case of eye contact, flush immediately with plenty of water and consult a physician. Avoid prolonged or repeated contact with skin. For skin contact flush with plenty of water.

When spraying a suitable exhaust system should be used. If spray mist is not completely removed from air a suitable respirator should be used, such as #9900 manufactured by 3M Co., or an equivalent type.

In case of spill use absorbing material to soak up and neutralize with sodium bicarbonate. Do not use strong alkalis. Then flush with water.

**Waste Disposal Method:** Treat liquid with sodium metabisulfite, then precipitate trivalent chromium by neutralizing with alkali such as lime. Dispose of waste in accordance with federal, state and local environmental control regulations.