

Temporary masking for surface treatment in aerospace

Description

Many harsh surface treatment processes are used during the manufacture of aerospace and other high technology components. During many of these processes, some areas of the component do not require the treatment, requiring temporary protection. [Dymax SpeedMask® temporary masking materials](#) provide aerospace manufacturing companies with reliable surface protection without the challenges of traditional masking materials like wax, tape or lacquer. They can be applied and cured in seconds so masked parts are immediately ready for production. This Dymax infographic details which processes are suitable for SpeedMask maskants (click to enlarge).

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SPEEDMASK®

Surface Treatment Options
for Light-Curable Maskants in
Aerospace Manufacturing



CHEMICAL PROCESSES

ANODIZING

Corrosion-resistant organic substrate surface of the anodic oxide layer is applied.

PLATING

Specialized metal ions are deposited on the metal substrate and are processed with an electroplating solution (e.g. Chromium, Zinc, Silver, Gold, Nickel, Silver, etc.).

ACID STRIPPING

Specialized acids are used to remove surface oxidation from chemical processing of metal substrates.

CHEMICAL MILLING/ETCHING

Specialized acids are used to remove surface oxidation from chemical processing of metal substrates.

COATING PROCESSES

AIR PLASMA SPRAY

Specialized coating materials are deposited on the substrate by the application of a plasma spray. The spray plasma deposits the energy from the flow of plasma onto the substrate.

PAINTING, E-COATING, & POWDER COATINGS

Specialized coating materials offer superior surface protection of components during painting, e-coating, and e-coating.

MANUFACTURING AID PROCESSES

MACHINING

The flexibility of the SpeedMask resin allows the material to be machined through, without any change of the remaining flexibility, since permitting to provide relative protection of the machined surfaces.

AIR FLOW TESTING

Specialized SpeedMask resin allows the complete testing of wind tunnels and air ducts, air intakes and components for flow testing.

MEDIA FINISHING PROCESSES

GRIT BLASTING

Specialized resin provides surface protection from media such as aluminum oxide, garnet, plastic and organic media.

SHOT PEENING

Specialized resin allows shot peening of metal parts and provides surface protection of the parts during the process.

VIBRATORY FINISHING

Specialized resin provides surface protection of the parts and allows the parts to be finished during the process.

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