

Temporary masking for surface treatment in aerospace

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 oxide surface while the workpiece is ready to apply.

PLATING

Specialized metal ions are introduced to the metal surface during an electrochemical process. Plating can be done on steel, aluminum, titanium, and more.

ACID STRIPPING

When using SpeedMask, acids provide superior surface protection from chemical stripping of metal coatings, paint, and primers.

CHEMICAL MILLING/ETCHING

Corrosion-resistant metal ions are introduced to provide surface edge finishing and accommodate the heat treatment and stress-relief processes.

COATING PROCESSES

AIR PLASMA SPRAY

SpeedMask air plasma spray is a process for the application of a thin layer of plasma to the surface. The plasma is created by the energy from the flow of plasma being treated.

PAINTING, E-COATING, & POWDER COATINGS

SpeedMask masking helps offer superior surface protection of components during painting, e-coating, and e-powder coating.

MANUFACTURING AID PROCESSES

MACHINING

The accuracy of the SpeedMask mask allows the workpiece to be machined through, around, and along it. The remaining mask is easily removed or powder residue is removed on all the machined surfaces.

AIR FLOW TESTING

When using SpeedMask, surface testing results show the complete sealing of existing holes and new seal-in applications and components for flow control and flow testing.

MEDIA FINISHING PROCESSES

GRIT BLASTING

Corrosion-resistant metal ions are introduced to the metal surface during an electrochemical process. Plating can be done on steel, aluminum, titanium, and more.

SHOT PEENING

Corrosion-resistant metal ions are introduced to the metal surface during an electrochemical process. Plating can be done on steel, aluminum, titanium, and more.

VIBRATORY FINISHING

SpeedMask mask provides superior surface protection of intricate and complex configurations during vibratory finishing operations such as during tumbling, or cleaning.

PARTS HANDLING PROCESSES

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Supplied by:

intertronics

INTERTRONICS

12a Station Field Industrial Estate, Banbury Road, Kidlington

Oxfordshire England OX5 1JD

t 01865 842842 e info@intertronics.co.uk

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