SPEEDMASK®

Surface Treatment Options for Light-Curable Maskants in Aerospace Manufacturing

CHEMICAL PROCESSES

ANODIZING
Cured SpeedMask resins protect substrate surface while the oxide layer of coating is applied.

PLATING
SpeedMask resins are able to withstand the most common plating processes such as Electroless Nickel (Ni), Platinum (Pt), Chrome (cr), Gold (Au), and Silver (Ag).

ACID STRIPPING
When cured, SpeedMask resins provide superior surface protection from chemical processing of nickel superalloys, steel, and titanium.

CHEMICAL MILLING/ETCHING
Cured SpeedMask resins can be trimmed to provide defined edge boundaries and accommodate the most complex and intricate components.

COATING PROCESSES

AIR PLASMA SPRAY
SpeedMask masking resins are resistant to the aggressive force and heat of thermal barrier coatings. The cured masks absorb the energy from the force of plasma spray materials.

PAINTING, E-COATING, & POWDER COATINGS
SpeedMask masking resins offer superior surface protection of components during painting, some e-coating, and some powder coating.

MANUFACTURING AID PROCESSES

MACHINING
The durability of the cured SpeedMask resins allows the maskants to be machined through, without any lifting of the remaining masks, while continuing to provide reliable protection of the masked surfaces.

AIR FLOW TESTING
When cured, SpeedMask airflow-testing masks allow for complete sealing of cooling holes and core cavities of turbines and components for row-by-row airflow testing.

MEDIA FINISHING PROCESSES

GRIT BLASTING
Cured SpeedMask resins provide reliable protection from media such as aluminum oxide, garnet, plastics, and organic media.

SHOT PEENING
Cured SpeedMask resins are resistant to various peening media (such as cut wire, round metal, ceramic particles, and glass beads) and the pressures used in peening applications.

VIBRATORY FINISHING
SpeedMask resins provide reliable surface protection of intricate and complex configurations during vibratory finishing operations such as slurry, tumbling, or deburring.

PARTS HANDLING PROCESSES

GENERAL MASKING
SpeedMask masking resins feature superior surface protection of turbine and metal components from FOD (foreign object damage) during the manufacturing process, handling, and transportation.

DYMAX®

Dymax manufactures innovative rapid and light-curable materials, dispensing equipment, as well as LED UV and broad-spectrum light-curing systems. We focus on developing solvent-free solutions that provide design engineers with tools to dramatically improve manufacturing efficiencies with reduced environmental impact.

www.dymax.com