SPEEDMASK®

Surface Treatment Options for Light-Curable Maskants in Aerospace Manufacturing





PROCESSES



Cured SpeedMask resins protect substrate surface while

ANODIZING

the oxide layer of coating is applied.

PLATING

(Pt), Chrome (cr), Gold (Au), and Silver (Ag).

SpeedMask resins are able to withstand the most common

plating processes such as Electroless Nickel (Ni), Platinum



ACID STRIPPING



protection from chemical processing of nickel superalloys, steel, and titanium.

CHEMICAL MILLING/ETCHING

When cured, SpeedMask resins provide superior surface



defined edge boundaries and accommodate the most

Cured SpeedMask resins can be trimmed to provide

complex and intricate components,



PROCESSES AIR PLASMA SPRAY

COATING



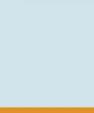
force and heat of thermal barrier coatings. The cured masks absorb the energy from the force of plasma

PAINTING, E-COATING,
& POWDER COATINGS

SpeedMask masking resins offer superior surface

protection of components during painting, some

SpeedMask masking resins are resistant to the aggressive



e-coating, and some powder coating.



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

MANUFACTURING

AID PROCESSES



AIR FLOW TESTING When cured, SpeedMask airflow-testing masks allow

protection of the masked surfaces.

for complete sealing of cooling holes and core cavities of turbines and components for row-by-row airflow testing.



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

MEDIA FINISHING

PROCESSES

SHOT PEENING Cured SpeedMask resins are resistant to various peening media (such as cut wire, round metal, ceramic particles,

organic media.



and glass beads) and the pressures used in peening applications.

VIBRATORY FINISHING

SpeedMask resins provide reliable surface protection of

finishing operations such as slurry, tumbling, or deburring.

intricate and complex configurations during vibratory



PARTS HANDLING



GENERAL MASKING SpeedMask masking resins feature superior surface

PROCESSES

FOD (foreign object damage) during the manufacturing process, handling, and transportation.

protection of turbine and metal components from

more in less time and with less negative impact on the environment.