SPEEDMASK®

Surface Treatment Options for Light-Curable Maskants in Aerospace Manufacturing





CHEMICAL **PROCESSES**

Cured SpeedMask resins protect substrate surface while the oxide

layer of coating is applied.

SpeedMask resins are able to withstand the most common plating

PLATING

ACID STRIPPING

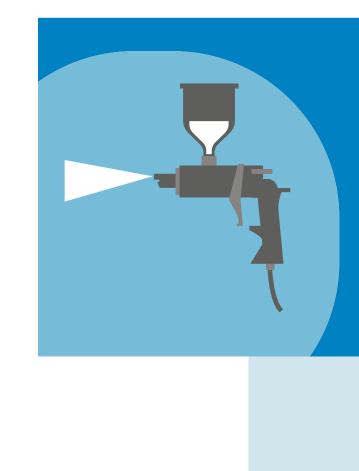
components.

processes such as Electroless Nickel (Ni), Platinum (Pt), Chrome (cr), Gold (Au), and Silver (Ag).

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



PROCESSES

AIR PLASMA SPRAY

COATING

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

coating.

surfaces.

PAINTING, E-COATING, & POWDER COATINGS

SpeedMask masking resins offer superior surface protection of

components during painting, some e-coating, and some powder

SpeedMask masking resins are resistant to the aggressive force and

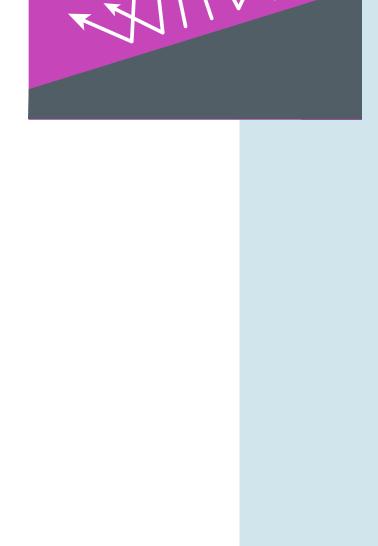


MACHINING The durability of the cured SpeedMask resins allows the maskants to be machined through, without any lifting of the remaining masks, while continuing to provide reliable protection of the masked

MANUFACIUKING

AID PROCESSES

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.



PROCESSES GRIT BLASTING

MEDIA FINISHING

SHOT PEENING Cured SpeedMask resins are resistant to various peening media

and the pressures used in peening applications.

SpeedMask resins provide reliable surface protection of intricate

and complex configurations during vibratory finishing operations

(such as cut wire, round metal, ceramic particles, and glass beads)

Cured SpeedMask resins provide reliable protection from media

such as aluminum oxide, garnet, plastics, and organic media.



VIBRATORY FINISHING

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.