Technikote Water Soluble Surface Protectant & Temporary Jig Adhesive

Applications

General

Technikote is an advanced polymer formulation that provides superior surface protection to ceramics, silicon, metals and other materials during processing. It is also useful as a temporary mount adhesive for special applications.

Uses

Surface protection from ejected molten material (slag) during laser machining
Temporary mount adhesive for specialized laser silicon machining applications

Materials

Alumina	Beryllia	Silicon	Aluminum Nitride
Fused Silica / Quartz Glass	Ferrites	Microelectronic Packages	Thin or Thick Films

Properties

Description	Effect / Characteristic
Immersion in MEK, Trichlorethylene, Toluene	Non Soluble
Immersion in Ethanol, Methanol	Film Expansion
Immersion in Water, Most Acids and Bases	Dissolution
Heating in air up to 100 degrees Centigrade	Reduces Rate of dissolution in Water
Heating in air over 100 degrees Centigrade	Film decomposition as temperature / time increases
Color	Standard pink tint-available clear or blue tint
Adhesion to common substrates	Good
Shelf Life	Five years stored at room temperature while sealed
Safety*	Non Flammable / Non Hazardous*

*See Material Safety Data Sheet

Processing Recommendations

Application of Technikote	Immersion dip parts and place in plastic wet process carriers (“boats”) for drying, roller coater application, spray application, spin application. May be thinned with water.
Drying	Air dry at average room temperature for one hour. Forced air oven dry at 50 to 65 degrees Centigrade for ten minutes. Times required when used as a temporary jig adhesive may be longer. (Times depend upon relative humidity).
Removal	Immerse in water heated to 50 to 90 degrees Centigrade for five minutes. Flowing hot tap water is typically used with good results. A two-stage removal process of immersion in static hot water followed by flowing hot water is most effective. Removal when used as a temporary jig adhesive usually will require much longer immersion times on the order of one half hour or more.

Questech Services Corporation
2201 Executive Drive
Garland, Texas 75041 USA

800-736-1664
972-278-8006
Fax: 972-278-8036

e-mail: sales@questlaser.com
Website: www.questlaser.com