

Product Application

TechniStrip®Micro D2 is a versatile stripper dedicated to address resin lift off and dissolution on negative and positive tone resist. The organic mixture blend has the particularity to offer high metal and material compatibility allowing to be used on all stacks and particularly on fragile III/V substrates for instance.

TechniStrip®Micro D2 is an elegant and none hazardous alternative for NMP and DMSO/Amine stripper. It is based on a non hazardous mixture of organic solvents that can be tuned to meet customer process specifications (temperature, time, metal compatibility, fast lift off, high dissolution rate, etc...)

Few applications :

- Positive resin stripping
- Negative tone resist lift off
- Lift-off process to pattern metals and dielectrics
- Reworking
- Adhesive , glue cleaner

Physico-Chemical properties

State: Uncolored Liquid blend Water Solubility: fully miscible

°C Flash point (Closed cup): 87°C pH: N/A water free

Impurity level: < 500ppb

General Process information

Process requirement: 65°C to 80°C

Process Time: <30min in batch, spray, SWP

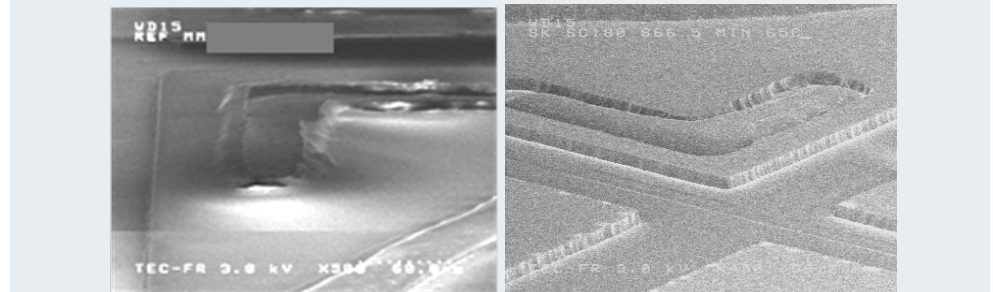
Direct water rinse

Bath life: >72 hours

Standard process for Automated Spray Tool (e.g. Semitool SST) Application :

Step	Time	RPM	Process	Source	Manifold	Drain
1	0:05	35	Warm-up	chamber	--	Chm 1
2	0:15	100	Chemistry reclaim to drain	T1	M1	Chm1
3	5 to 30 min @65-80°C	150	Chemistry reclaim to reclaim	T1	M1	T1
4	0:10	500	N2 purge to reclaim	N2	M1	T1
5	0:05	500	Chamber to drain	chamber	--	Chm 1
6	5:00	50	Cold DI water rinse to drain	C DI	M1, M2	WD1
7	2:00	500	Cold DI water rinse to drain	C DI	M1, M2	WD1
8	2:00	1200	N2 dry/purge (M3 heated), Dry Hi	N2	M1, M2, M3	WD1
9	5:00	600	N2 dry low (M3 heated)	N2	M3	WD1

SEM Micrographs on Customer' features



3µm AZnlof- Al metal lift off

before and after TechniStrip@MICRO D2 10min, 70C

A TEAM YOU CAN TRUST

Material compatibility

ER in A/min @ 65°C	Static Immersion	Batch Spray
Al(5%Cu)	<2	<1
Cu (PVD)	<2	<1
Cu (ECD)	<2	<1
Ni	<1	<1
Ta/TaN	<1	<1
Ti/TiN/TiW	<1	<1
Au, Sn, Ag	<1	<1
Thermal SiO2	<1	<1
Undoped Si	<1	<1

COMPATIBILITY TechniStrip MICROD2			
PVC	YES	EPDM	YES
Viton	No	PP	YES
PVDF	No	PE	YES
HDPE	YES	Silicon	YES
Teflon	YES	NBR	YES
PFA	YES	Stainless steel 316i	YES
PTFE	YES	Kalrez	YES
Halar/ECTFE	YES	EPDM	YES
PET	YES		

* 4points probe measurement on blanket wafers.

** Spectroscopic ellipsometer on blanket wafers.

***Solution ICPMS after 48 hrs immersion

On request, additional materials can be tested for compatibility

Static immersion @80°C for 7days

Equipment

TechniStrip®Micro D2 can be used in batch immersion and batch spray equipments.

Bath life

To maintain optimal cleaning performance over 72Hr, it is recommended to work within closed systems (capped batch, spray tools). The solution can be reclaimed.

Quality

Technic' solutions are formulated using high purity and quality raw materials to ensure low ppb metal levels and particulate count. The full manufacturing process is in accordance with the company quality policy (ISO9001-2008).

Health, Safety and Environment

To obtain comprehensive information on the safe use and handling of the TechniStrip, a material safety data sheet is available on request. **Technic' safety policy is to promote safer chemical to the industry in accordance to latest European regulation and Customer' chemical banned substance list.**

Contact

TECHNIC France
 15, Rue de le Montjoie – BP 79 –
 93212 SAINT DENIS LA PLAINE CEDEX
 Tel: +33 1.49.46.51.00
technic.france@technic.fr
www.technic.com/eu/