



COATING

PROMOSOLV™ COAT UT10

ULTRA-THIN HYDROPHOBIC & OLEOPHOBIC COATING
DIPPING & SPRAY PROCESS
EASY & FAST PROCESS

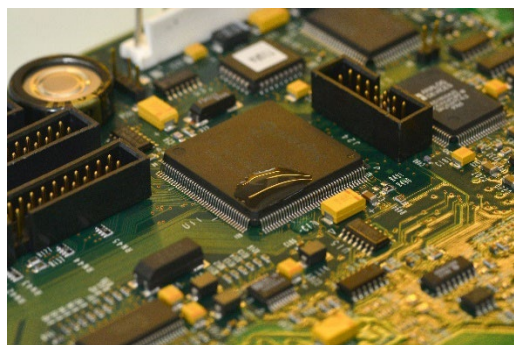
BENEFITS

PROMOSOLV COAT UT10 is a transparent hydrophobic and oleophobic ultrathin coating to protect electronics and other surfaces against moisture, corrosion and other environmental conditions that could jeopardize the reliability of the device or surface. Adheres well to a wide variety of material substrates as plastic, glass, metal and ceramic.

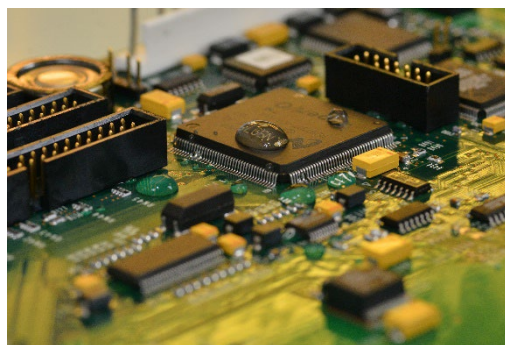
The coating is available with a 2, 4 and 8% solid content, which provides a different dry film thickness. When using a dipping process, the 8% version is used to top up the solid content in the coating bath in a dipping process.

PERFORMANCE	<ul style="list-style-type: none"> Provides exceptional repellence of all kinds of liquids. Fast drying at room temperature (<1 min)
COST	<ul style="list-style-type: none"> Substantial cost reduction due to small amount of product needed and simplicity of process. PCB masking is not required, saving on preparation time.
HSE	<ul style="list-style-type: none"> No CMR substances Low environmental impact & very low VOC Non flammable

PCBA WITHOUT COATING



PCBA WITH COATING



LIQUID PROPERTIES

CHARACTERISTICS	PROMOSOLV COAT UT10 2%	PROMOSOLV COAT UT10 4%	PROMOSOLV COAT UT10 8%
Chemical nature	Fluoropolymer		
Solids (weight %)	2	4	8
Appearance	Colourless, clear to slightly cloudy		
Density (g/cm ³) at 20°C	1.4		
Solvent type	Hydrofluoroether		
Boiling point of solvent carrier	61-76°C (142°F-169°F)		
Flash point	None		
Viscosity (cSt)	~1		
Surface tension (mN/m or dynes/cm)	13,6		

FILM PROPERTIES

CHARACTERISTICS	PROMOSOLV COAT UT10 2%	PROMOSOLV COAT UT10 4%	PROMOSOLV COAT UT10 8%
Film Thickness*	Dipping 0,1 – 0,2 microns Spray: typical 2 microns	Dipping 0,2 – 0,4 microns Spray: typical 4 microns	Dipping 0,8 – 1 microns Spray: not applicable
Appearance	Clear, colourless		
Surface energy (dynes/cm)	5 -10		
Contact angle (ASTM D7334-08)	120° water - 80° oil		
Heat stability	150°C continuous -250°C one hour		
Solder-through repairability	Yes		
Solvent and chemical resistance	Excellent		
Refractive index	~1,35		
Tg (glass transition temperature)	75°C		
Dielectric strength	2500 V/mil (2500 V/25µm)		
Dielectric constant	2,25 @100 KHz		
Dissipation factor	0,016 @100 KHz		
Volume resistivity	4,5x10 ¹⁵ Ω.cm		
Non flammability certificates	UL94 V-0 / NF EN 60695-11-10		

*Film thickness depends on application and process parameters

PROCESS RECOMMENDATION

The best process will depend on factors such as operating conditions, equipment, time and the cleanliness of the parts. Our team is ready to advise you.

- Dipping process recommended / spray application possible (especially for selective deposition)
- Typical coating thickness is about 0.2 to 0.5 microns by dipping application
- Recommended to apply on cleaned and dried surfaces
- Touch dry within less than a minute / No thermal or UV cure required
- In order to manage the solid content in the coating bath, Promosolv Coat DILUENT 10 is used to add solvent and Promosolv Coat UT10 8% is used to add solid content.
- Promosolv Coat DILUENT 10 can also be used to remove coating or for nozzle and equipment cleaning.

PACKAGING, STORAGE & SHELF LIFE

- Keep products in closed original packaging and store at room temperature.
- Shelf life is 2 years from production date when kept in unopened and original packaging.

AVAILABLE PACKAGING



8 Kg DRUM

HEALTH, SAFETY & ENVIRONMENT

Contains no Reach Substances (on Candidate list, Annex XIV & XVII) / Contains no persistent organic pollutant (EC 850/2004) / Contains no Import/Export Hazardous substances (EU 649/ 2012). No issues when used as recommended.

- non-ozone depleting
- non-flammable
- no chlorine, no bromine
- very low VOC
- RoHS compliant

Please refer always to the Safety Data Sheet (SDS or MSDS) prior to use. Our SDS can be downloaded at www.quickfds.com. We will request to provide your email address, so we can automatically send you a new version of the SDS when a future update would occur.

TECHNICAL SUPPORT & FREE-OF-CHARGE TESTING

Inventec has a worldwide dedicated Technical Support team to help you along the different stages of our cooperation.

Depending on your request, we provide online or onsite support

- to select the right product based on your specific needs
- to assist you in your product qualification process
- to guide you with the initial set up of your process at all your worldwide manufacturing facilities
- to provide fast response on technical issues which could occur at any time during mass production.

When prior cleaning is required, customers are also welcome in our CLEANING CENTERS to see the process in action and to get convinced by our solutions. We cover water- and solvent based processes.

Inventec is unique in the world by developing not only coating materials but also soldering and cleaning solutions. These materials are very closely linked with each other from a process point of view. Talking to our Technical Team, who understands very well these 3 different product groups, will help you greatly to overcome technical challenges within your overall process.

Contact our technical support via contact@inventec.dehon.com or your local sales representative.

ABOUT INVENTEC

Inventec is a global provider of SOLDERING, CLEANING & COATING materials for Electronic, Semiconductor and Industrial applications. For over 40 years we have shown leadership in innovation by putting HEALTH IMPACT, SUSTAINABILITY and RELIABILITY at the core of our product development.

With ISO 9001 & 14001 production sites in France, Switzerland, USA, Mexico, Malaysia and China we can guarantee a smooth and cost-effective supply chain.

We supply to many industries but the excellent performance of our products in applications which demand high reliability, leads us to focus especially on the AUTOMOTIVE, AEROSPACE, SEMICONDUCTOR, ENERGY and MEDICAL industry.

www.inventec.dehon.com



S O L D E R I N G • C L E A N I N G • C O A T I N G

In accordance with the Annex II of Directive 2011/65/UE (RoHS), including its amendments, we certify that this product does not contain quantities above 0.1% of Hg, Pb, Cr VI, PBB, PBDE, DEHP, BBP, DBP, DIBP and above 0.01% of Cd

This data is based on information that the manufacturer believes to be reliable and offered in good faith. In no event will INVENTEC PERFORMANCE CHEMICALS be responsible for special, incidental and consequential damages. The user is responsible to the Administrative Authorities (regulations for the protection of the Environment) for the conformity of his installation.

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