



ULTRA-THIN COATINGS

Promosolv™ coat UT10

KEY ADVANTAGES

- ✓ Fast process without heat or UV curing
- ✓ Low cost of ownership
- ✓ Safe & sustainable

Inventec presents an innovative range of ultra-thin hydrophobic and oleophobic functional coatings, enabling exceptional repellency of moisture, water, oils, dust and other particles. An alternative to typical conformal coatings in printed circuit boards.

Optical transparent, low viscosity, low surface tension fluoropolymer solutions that dry in seconds to form a thin protective film of average 1 μm . Easy application process and an optimal coating solution to mitigate corrosion under harsh environment conditions in challenging components.

PRODUCT	CHARACTERISTICS
PROMOSOLV™ COAT UT10 2%	Ultra-thin coating with 2% solid content
PROMOSOLV™ COAT UT10-UV 2%	Ultra-thin coating with 2% solid content and UV tracer for detection
PROMOSOLV™ COAT UT10 4%	Ultra-thin coating with 4% solid content
PROMOSOLV™ COAT UT10-UV 4%	Ultra-thin coating with 4% solid content and UV tracer for detection

INVENTEC
PERFORMANCE CHEMICALS

INSPIRING INNOVATION

SOLDERING • CLEANING • COATING

THINK DIFFERENT, THINK SMART

Ultra-thin coatings are relatively new compared with the more traditional conformal coatings. Most coating standards are currently not adapted to evaluate properly the use of these ultra-thin coatings for the protection of electronic assemblies.

ADDED VALUES

SOLVING CONSTRAINTS IN YOUR PRODUCTION PROCESS

FASTER PROCESS

- Touch-dry in few seconds
- May not require masking
- Pre-cleaning can be easily build-in

SUSTAINABLE CHEMISTRY

- Non-toxic
- Non-flammable
- Low GWP, no Ozone depletion
- Low VOC & Exempt from some VOC regulations

PRODUCTION PROCESS

LOW INVESTMENT

- No need for selective spray equipment
- Apply by dipping is recommended
- No need for curing oven

SPACE LIMIT

- No need of curing oven

LOW VOLUME PRODUCTION

- Due to low investment requirements, ideal for proto-typing or high mix / low volume productions

ENHANCING YOUR DEVICE FUNCTIONALITY & RELIABILITY

PORTABLE DEVICES

- Avoid damage of unexpected water exposure
- Avoid damage of spillage of beverages, oils, ...
- Avoid damage by dust collection

MINIATURISATION

- small devices are more prone to corrosion

CHEMICAL EXPOSURE

- Sulfur in air
- Salt water
- Oils, greases, ...
- Equipment used at certain chemical plants

DEVICE FUNCTIONALITY

PLACED IN HUMID ENVIRONMENTS

- Humid regions
- Maritime equipment
- Bathroom & swimming pool

PLACED OUTDOOR

- Avoid damage by ingress of rain
- Avoid damage by ingress of dust and soil

PROVIDES MORE DESIGN FREEDOM & SOLVES COATING CONSTRAINTS

HEAT SENSITIVE COMPONENTS

- Avoid exposure to heat

FLEXIBLE COATING

- Reduce stress on components
- Avoid coating cracks
- Flexible printed circuits

SPACE & WEIGHT SAVING

- Reduces the coating height
- Reduces the weight
- Alternative to heavy enclosures

PRODUCT DESIGN CONSTRAINTS

LOW DIELECTRIC CONSTANT

- Avoid blocking Radio Frequency (RF) waves

OPTICAL CLEAR COATING

- No loss of light emission
- No color change

TIN SILVER SOLDER

- Lead free solders more prone to corrosion