INVENTEC
PERFORMANCE CHEMICALS
INSPIRING INNOVATION

PROMOSOLV™ COAT

Hydrophopic & oleophobic Ultra-thin coatings

INTRODUCTION

Inventec presents an innovative range of ultra-thin hydrophobic and oleophobic functional coatings, enabling exceptional repellency of moisture, water, oils, dust and other possible contaminations. 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 1 µm average. An easy application process and optimal coating solution to mitigate corrosion under harsh environment conditions in challenging components.

PRODUCT OVERVIEW

The solid content will regulate the thickness of the coating. A lower solid content provides a thinner coating.

PRODUCT	CHARACTERISTICS
PROMOSOLV™ COAT UT10 2%	2% solid content
PROMOSOLV™ COAT UT10-UV 2%	2% solid content and UV tracer
PROMOSOLV™ COAT UT10 4%	4% solid content
PROMOSOLV™ COAT UT10-UV 4%	4% solid content and UV tracer
PROMOSOLV™ COAT UT10 8%	8% solid content
PROMOSOLV™ COAT UT10-UV 8%	8% solid content and UV tracer

KEY FEATURES

Fast process without curing

Ultra-thin coatings can be applied with a simple dipping process and dry at room temperature in seconds.

Low cost of ownership

Only a 1µm layer of coating material is deposit on the surface, which results in a very low consumption of coating material. Additionally, is there no need for a curing oven, which reduces investment requirements.

Safe & sustainable

Our coatings are all non-flammable, have a low GWP, no Ozon Depletion Potential and are PFOA & PFOS free.

GET IN TOUCH

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ULTRA-THIN COATINGS
THINK DIFFERENT
THINK SMART

Ultra-thin coatings are relatively new compared with the more traditional conformal coatings. Nevertheless do their added values convince manufactors to replace conformal coatings or they allow to use protective coatings for the first time and extending the life-time of their products.

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 hight
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

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