

# PLATING PRODUCTS IND PVT LTD

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## Technical Data Sheet

### PP ULTRA PRO- CONTACT

*This protective system for contact surfaces is based on the molecular Technologies and is free of particles- and heavy metal ions. Special Biopolymers adsorb onto the contact surface and bond up to a few Nanometre-thick conductive protective layer.*

- Increases life time of electric contacts.
- Is optically invisible due to the small layer thickness.
- Is chemically inert as well as dirt and water proof.
- Resulting in homogeneous low electrical resistance.
- Decreases oxidizing processes on the metal surface reduces environmental contaminations.
- Is free of particles and heavy metal ions.
- Is chemically stable and high life time.
- Is conform to the EU Directive 200/53/EC and the ROHS directive in 2011/65/EU (RoHS 2).

### Instruction manual

#### The important coating Bath and coating parameters

- Bath temperature  $T = 75^{\circ}\text{C}$ .
- Coating time  $t = 3\text{-}5\text{ min.}$
- Avoid permanent contact with non-noble metals like stainless steel.
- Light movement of items in the bath.

#### Bath Container

The bath container should be mainly of synthetic material like Polypropylene (PP). Stainless steel should not be used.

#### Bath Heater

Usual heater as used normally in the galvanic industry.

#### Bath mixing

Warm up the concentrate to  $60^{\circ}\text{C}$ . Then fill 1 Litre concentrate in 50 Litre pure water under shaking in the warm water bath heated to  $60\text{-}65^{\circ}\text{C}$ . The coating bath is ready to use when a nearly clear solution and  $75^{\circ}\text{C}$  is achieved (15min). The concentrate may not be filled coldly into the water bath.

#### Coating Process

**!!! A galvanic degreasing of the contact items should be avoided before dipping into the coating solution. This step could lead to insufficient protective results. If necessarily galvanic degrease is needed contact items should be treated in a sulphuric acid after the galvanic degreasing and before dipping in the coating bath!!! For alternative degreasing, use ultrasonic cleaning in pure water.**

1. Dip the water rinsed contact surface for 3-5 minutes into the 75°C coating solution.
2. Wash up in clear cold distilled water for 10-20 second.
3. Rinse into hot water at about 60°C for 10-20 seconds.
4. Now the items are nearly dry and very waterproof. Isolated drops of water can be blown off with hot air ( $T_{\max} 60^{\circ}\text{C}$ ) or they can be dried in the stove at about  $T 60^{\circ}\text{C}$

Complete change of the Bath:

The bath should be changed after strong contamination or if becoming dark. We recommend a complete change every 4 weeks.

Quality Control of coating solution:

The high performance of the PP ULTRA PRO- CONTACT was proven under mass production of industrial applications. To keep the high performance we recommend the following quality controls:

Optical control:

A strong discoloration with dark colours should be avoided. In this case an exchange of the bath should be performed.

All quality controls, including analysis of the active components can be performed in our lab. Send us a sample of >100ml.

Disposal:

The bath solution can be cleaned after cooling using existing active filter arrangements to be disposed. You must take care about your wastewater collection and disposal rules/regulations.

## **IMPORTANT NOTICE: for industrial use only.**

The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose.

Neither seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct, incidental or consequential arising out of the use or the inability to use the product.