

NiKlad Eclipse

Black Electroless Nickel Coatings

“Any Colour As Long As It’s Black” **(Henry Ford 1922)**

For a long time, designers have appreciated the appeal that a high performance black coating gives to their products. Typically this has meant applying organic or chromate finishes to achieve high lustre black coatings. However, these types of finishes often have poor resistance to sunlight exposure, poor electrical conductivity and do not have good wear resistance.

Until now, MacDermid, introduce a new coating **NiKlad Eclipse**, built on the high performance, ultra high quality of the NiKlad Electroless Nickel range. A surface finish applied in this way retains the benefits of a NiKlad deposit, but meeting design requirements for a robust black coating. The finish is an electrically conductive metal oxide conversion coating. Unlike chromates and organic topcoats, it will not lighten due exposure to sunlight .

For a black coating which is consistent, resistant to ultra violet light and can be applied to most substrates, count on MacDermid.



Key Features

- **Electrical conductive black finish with resistance to wear and discolouration**
- **Lead and cadmium free process for better recycling capability**
- **Meets ELV 2000/53/EC, WEEE 2002/96/EC, RoHS 2002/95/EC, and all other OEM restricted reportable substance requirements**

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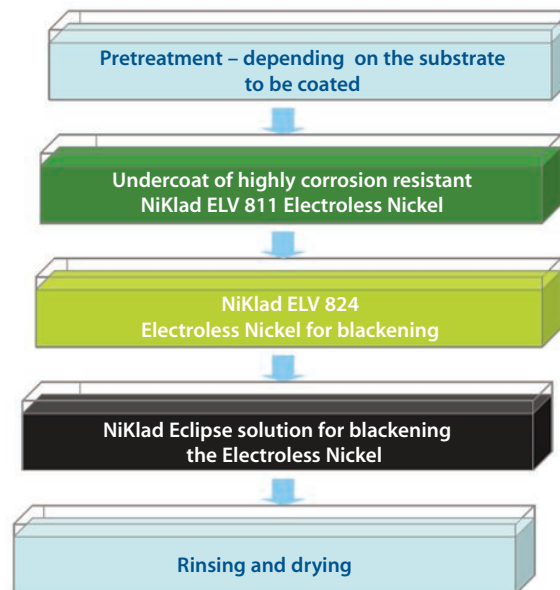
Consistency Even On Intricate Components

Eclipse is produced using MacDermid RoHs Compliant NiKlad Electroless Nickel Chemistry. This means that it can be applied as an even deposit thickness to most metal substrates, even those with very complicated shapes. The even thickness ensures that the colour is very consistent, even in deep recesses.

The **NiKlad Eclipse** process offers the following technical performance.

- Hardness** The Electroless nickel coating has an average hardness of >500Hv. The Eclipse coating is softer, but once dried, has an abrasion resistance of >2H equivalent to most organic coatings.
- Corrosion** The duplex Electroless nickel deposit offers exceptional base metal corrosion resistance. For example, on a steel panel red rust is resisted for more than 750 hrs when tested to ISO 9227.
- Colour** The black has a reading of <30 by spectrophotometer, this means that human eye sees the coating as “deep” black. The stability of the colour is excellent in UV light.

The deposit is applied using the following process



It takes more than innovative, high performance products and superior technical service to help our customers compete and win in today's global marketplace. It takes a total commitment to understanding their needs and the ability to provide the right solutions—every time.

When success is your only goal, trust MacDermid.

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