

pronice e-coat: Finishing and Conversion

pronice e-coat is a versatile clear cathodic electrocoat process on conductive substrates

It deposits an Acrylic/Urethane lacquer film that has both clarity and durability. It can be applied to most conductive metal substrates cathodically and is suitable for automatic and manual production lines. E-coat deposits an even coating of controllable film thickness free from drips and sags even on complex shapes. The exceptional clarity enhances the reflectance and aspect of the metal substrate.

Applications:

| | | |
|--|--|---|
| can be used as finishing and conversion | high protection against oxidation and corrosion | layer can be colored |
| works on all conductive metal substrates | protection against discolorations | Corresponds to the directives of the EU: Directive 200/53/ EC and the ROHS directive in 2002/95/ EC |
| finishing of metals | permanent anti tarnishing of silver in jewellery and decorative applications | |

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Typical properties of pronice e-coat

- Easy to control
- Low V.O.C.
- Low running costs
- Optically invisible
- Chemically inert coating
- Biologically safe and skin-neutral
- Works with the most metals
- Chemically stable and high life time
- High corrosion resistance
- Improved scratch resistance
- Protects the shine of the base material,
- Free of Particles and heavy metal ions
- Non hazardous

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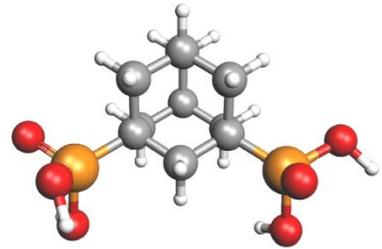


2003

Baden-Württemberg
Germany

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This clear coating works on the most metal substrates to protect them from oxidation and to enhance wear resistance. The tarnishing protection on copper is excellent. Pronice e-coat is designed to be an easy to control process that is nonhazardous in use and give the finisher a cost effective process.

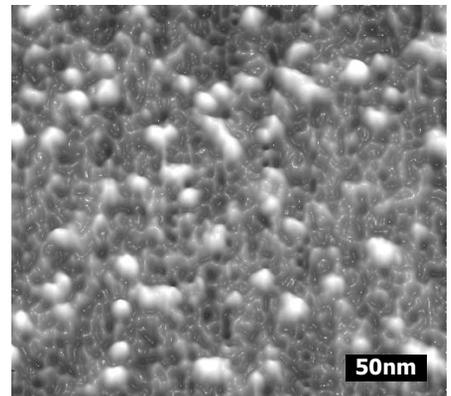


Technical Specifications

| | 130°C 20min Curing | 150°C 20min Curing |
|--|-----------------------|-----------------------|
| Hardness | 3-4 HV | 4-5 HV |
| Scratch resistance | 2000 g | 2000 g |
| Clarity | Very good | Very good |
| Corrosion resistance (salt spray) | > 1000h | > 1000h |
| Ammonium sulphur test 2% (tested on Cu) | > 6h | > 6h |
| Acetone resistance | > 200 rubs | > 500 rubs |

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We develop according to your demands especially functional coatings for the highest surface claims. Or we provide you by our proven Coating systems. We focus our developments to stand the highest quality - verified by load tests, a maximum process security, an optimized environmental compatibility and a high economic efficiency. Furthermore we optimise overall systems of customer-sided coating process and integrate the newest technologies as for example plasma pre-treatment for the cleaning and activation of surfaces.



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