

# Re: EPD TiO2 coatings

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*Source:* <http://sci.tech-archive.net/Archive/sci.chem/2005-05/msg00619.html>

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- *From:* Uncle Al <[UncleAl0@xxxxxxxxxxxxxx](mailto:UncleAl0@xxxxxxxxxxxxxx)>
  - *Date:* Fri, 27 May 2005 10:11:21 -0700
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zygimantas wrote:

>  
> Hello all, I'm working on electrophoretic deposition of TiO2 from  
> anhydrous solutions on stainless steel. I have some problems with  
> adhesion. According to lots of sci. papers in order to obtain better  
> TiO2 adhesion on substrate it's recommended to perform thermal  
> annealing at 450oC temperature. But adhesion is still weak, you can  
> easily scrap it down with fingers. Maybe any body have more ideas about  
> that?

I'd begin with wondering about the stainless steel surface. What kind of stainless steel do you have? Do you want its surface clean, etched, oxidized, anodized, phosphatized, etc. as primers? "Clean" or primed, do you want it further activated for adhesion with reactive silane or titanate surface modifiers before the final deposition?

This is good stuff! If you can show a process or composition of matter not obvious to one skilled in the art, with component parts that non-linearly add (synergism!) to a desirable sum, you have a patentable invention. Since it is now exposed in the public domain you had better get cracking in reducing it to practice and then filing.

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Uncle Al  
<http://www.mazepath.com/uncleal/>  
(Toxic URL! Unsafe for children and most mammals)  
<http://www.mazepath.com/uncleal/qz.pdf>  
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- *Follow-Ups:*
  - ◆ ***Re: EPD TiO2 coatings***
    - ◇ *From:* zygimantas
- *References:*
  - ◆ ***EPD TiO2 coatings***
    - ◇ *From:* zygimantas

Re: EPD TiO2 coatings

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