

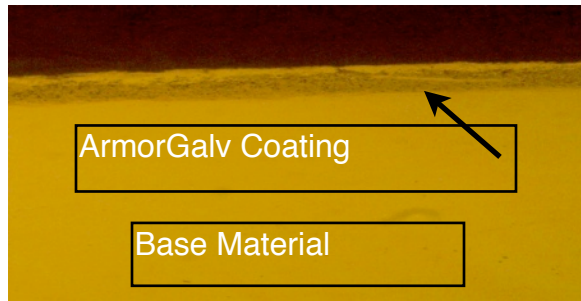


ARMORGALV M10 BOLT SAMPLE STUDY

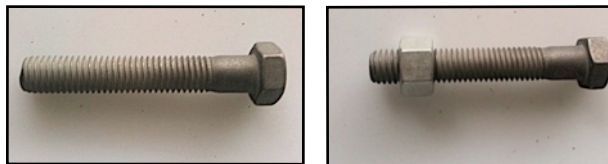
11/4/2010

In order to clearly demonstrate the difference between electroplating and **ArmorGalv**® thermal diffusion, we coated some standard M10 bolts with **ArmorGalv**®:

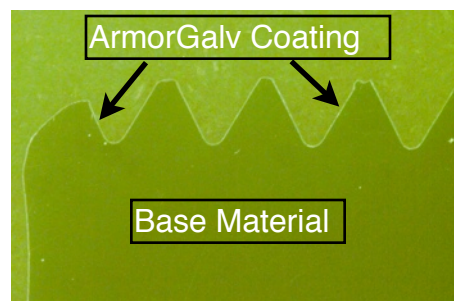
These bolts were coated with **0.00075"** of **ArmorGalv**® on the threads which was measured by cross section at 400X:



It is evident that a standard zinc plated nut easily fits onto the bolts in spite of this high thickness.



The reason that this thickness poses no fit problem can be demonstrated by the following 10X cross section of the lead threads. Please notice that there is NO "dog-boning" of the coating on the lead threads as normally occurs with electroplating:



The normal limitations that are the result of the non-uniform nature of electroplating are greatly mitigated with the **ArmorGalv**® coating. It will, therefore, be possible to coat "off the shelf" parts with **ArmorGalv**® without worrying about fit and function.