



**MarineLINE®**

## Tubitak Photographic Research Illustrates Higher Crosslink Density of MarineLine® Coatings

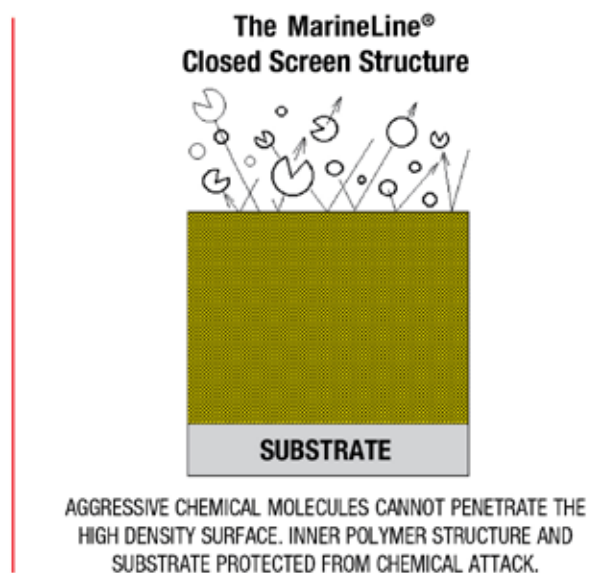
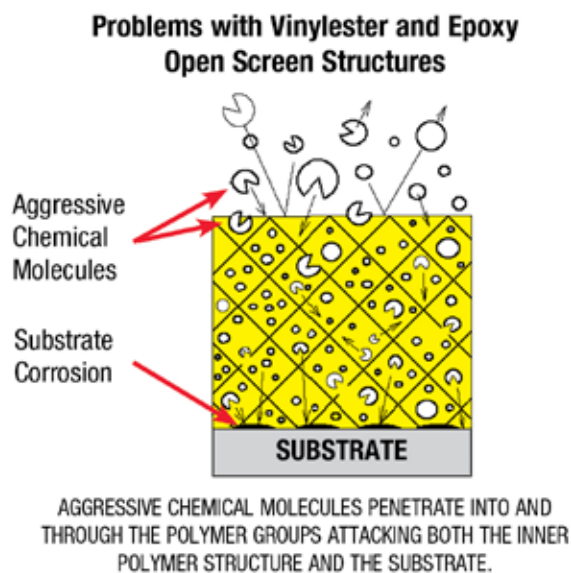


The microscopic coating surface images in this technical report were taken at TUBITAK, a Turkish governmental organization in Ankara, Turkey, committed to supporting scientific, academic and industrial research and development studies and innovations. The research was conducted at TUBITAK to compare the differences of Advanced Polymer Coatings' MarineLine® brand of coatings versus standard Novolac epoxy coatings.

MarineLine® brand of coatings versus standard Novolac epoxy coatings.

MarineLine® coatings use a patented polymer formulation with high multi-functional capability. The end result is a high performance coating with enhanced crosslinking capability (number of crosslinks per unit of volume) into a very tightly knit structure with high chemical and high temperature resistance.

The difference is shown in the illustrations that depict the crosslinking of an open screen structure (epoxies) compared to a closed screen structure (MarineLine®).



TECHNICAL REPORT



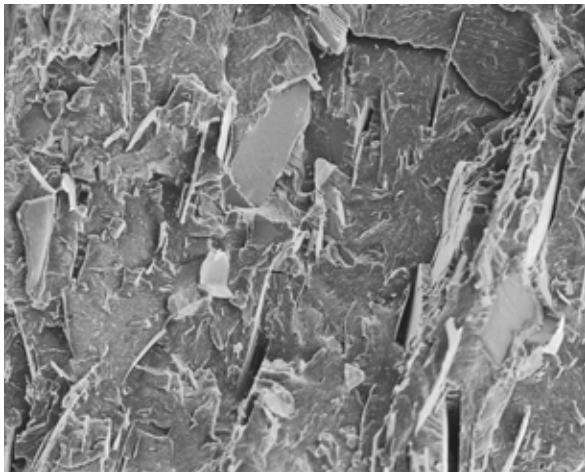
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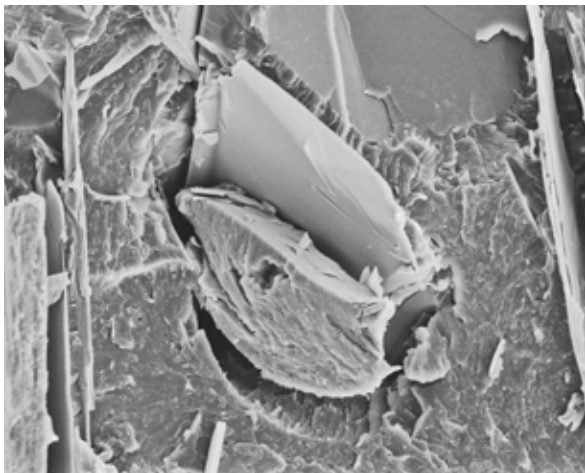
## MICROSCOPIC EVIDENCE OF MARINELINE® COATING HIGHER CROSSLINKING

TUBITAK has done microscopic work to show in photographs how this comparison is depicted side by side. LEFT, a Novolac Epoxy coating at various magnifications, compared to RIGHT, the MarineLine® coating.

### Novolac Epoxy Coating

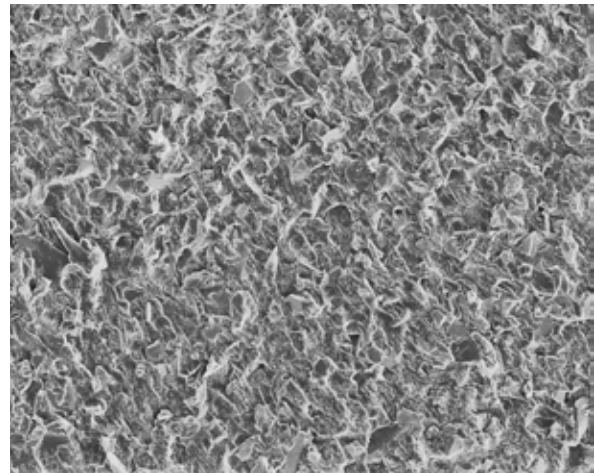


*x250 Magnification*

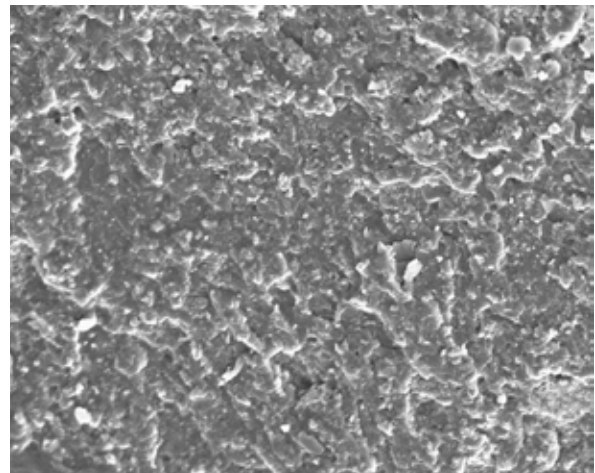


*x1000 Magnification*

### MarineLine® Coating



*x250 Magnification*



*x1000 Magnification*

Higher crosslinking leads to a more dense structure, that enhances high chemical and high temperature resistance. For more information, visit [www.adv-polymer.com](http://www.adv-polymer.com).