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Aculon To Launch New NanoProof Products at IPC APEX 2017

SAN DIEGO, Calif. (February 7, 2017)- IPC APEX Expo 2017 will serve as the launchpad for the release of new Aculon NanoProof products.

The NanoProof series of waterproofing line of products, launched in 2015, represent a new category of electronics waterproofing technology. These hydrophobic coatings are applied inline without the need for slow and costly vacuum chambers, they deliver the benefits of conformal coatings but with the key added benefit of "push through connectivity". Push through connectivity allows you to connect the board after it has been treated, thereby providing tremendous assembly flexibility. NanoProof treatments also eliminate not only costly capital investment but also masking and bottlenecking batch processes.

The NanoProof series has been successfully implemented in numerous applications including: hearing aids, bluetooth devices, and household "smart" electronics, and is now in test with all the major mobile manufacturers. The new products featured at IPC APEX Expo 2017 include NanoProof 2.0 and 8.0.

NanoProof 8.0 is a new low cost thixotropic formulation that is not just new and improved, but rather game changing. The electronics industry can now achieve the IPX-7+ (30 minutes submersion in water at a depth of 1 meter) and beyond levels of waterproofing that is so desired by mobile device manufacturers. NanoProof 8.0 provides extreme levels of water protection with an easy-to-apply liquid treatment.

NanoProof 2.0 will bridge the gap as a mid-range PCB waterproofing option. An ultra-thin butylene polymer in hydrocarbon solvent, 2.0 will provide up to IPX-5 level waterproofing protection for electronics. It will feature a thickness of around 8-10 microns and allow for push-through-connectivity up to 20 minutes after application. Available application techniques will include film coating or dispensing.

"The availability of NanoProof 2.0 & 8.0 treatments for waterproofing electronics represents a significant opportunity for the electronics industry," said Edward Hughes, CEO of Aculon. "The ability to

easily and inexpensively waterproof electronics with an easy to apply material is critical as manufacturers push the boundaries of electronics waterproofing demanding lower costs, easier processes, and significantly more robust waterproofing performance."

While the initial NanoProof solutions could outperform the existing options by creating IPX 5-6 levels of performance, achieving the goal of IPX7 proved challenging. The new NanoProof product, 8.0, a hydrophobic polyolefin solvent based treatment, achieves IPX-7, allows for push through connectivity, and can be applied using standard equipment produced by manufacturers e.g. PVA and Nordson Asymtek.

Click here for the video demonstrating the IPX7 performance on a Samsung phone.

Aculon will be attending IPC APEX 2017 in San Diego, February 14-16th (Booth 1805). Conference attendees will be able to personally speak with NanoProof product experts to determine how NanoProof 2.0 and 8.0 can be successfully utilized with their specific applications.

Learn more about NanoProof 2.0 & 8.0 and the other Aculon NanoProof products at http://www.aculon.com/nanoproofpcbrepellency.php.

About Aculon
Aculon is a surface modification company that operates in the Electronics, Oil & Gas and Specialty markets globally. Aculon develops and commercializes unique surface and interfacial coatings.

Aculon treatments include:
- NanoClear - #1 Global Stencil Nanocoating
- Repellency – Treat numerous surfaces to repel water, oil, solvents, and most all liquids.
- Particle Treatment – Functionalize nanoparticles to improve many characteristics such as hydrophobicity, oleophobicity, and adhesion.
- Acuwet (Hydrophilic) treatments - To wet surfaces for anti-fouling and medical applications.
- Adhesion – Boost the adhesion of challenging surfaces with Aculon's adhesion promoting treatments.