

Ultraseal America Inc. to show value of vacuum impregnation at Engine Expo North America 2013

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Ann Arbor, MI ([rushPRnews](#))
08/08/13 — Ultraseal America Inc. will be highlighting the value of vacuum impregnation as a reliable and permanent solution to the eternal problem of casting porosity when it exhibits at Engine Expo 2013 in Novi, Michigan, in October 2013.

This will be the first appearance of ultraseal, the leading innovator in the field of porosity sealants and vacuum impregnation equipment, at the trade fair for the powertrain audience from OEM, car, bus and truck companies.

Many manufacturers in the automotive supply chain use vacuum impregnation to guard against the dangers of porosity - microscopic holes in a cast metal part that can cause leak paths and lead ultimately to the failure of parts.

The process is particularly apt for parts that have to remain leak-free under pressure - such as engine blocks, cylinder heads, air compressors and transmission cases - and is often used as a routine quality enhancement.

Other parts that commonly undergo vacuum impregnation include turbochargers, fuel rails, inlet and fuel system components, timing chain covers, fuel pumps, water pumps, oil sumps, power steering, cam carriers, cam

covers, clutch cases, power steering, thermostat housing and torque convertor cases.

Ultraseal America Inc. will be at **Stand E314** at the show in the Suburban Collective Showplace in Novi from October 22-24, 2013. Sales Manager Mark Vance will be available to explain the benefits of vacuum impregnation for powertrain designers.

Stephen Hynes, Marketing Director, Ultraseal, said: "While powertrain designers may not naturally have vacuum impregnation at the front of their minds, the process undoubtedly helps them to realise their visions of more efficient engines and transmissions.

"For new designs to work effectively all the component parts need to operate as expected, particularly when under pressure, and vacuum impregnation with sealants ensures that parts remain leak-free.

"Porosity is, unfortunately, a natural phenomenon that occurs during the casting process and, as such, is extremely difficult to eliminate, no matter how skilled the diecaster. Vacuum impregnation with sealants is an effective solution.

"That's why manufacturers are increasingly treating vacuum impregnation as a routine quality enhancement process that adds value, rather than as a quality correction process for a few parts."

Ultraseal America Inc., based at Ann Arbor, MI, is part of Ultraseal International, the UK-based company that has a proud history of innovation, technical excellence and a truly global reach in the field of vacuum impregnation.

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The company produces the global benchmark recycling sealant Rexeal 100™ which can operate at temperatures of up to 428 °F (220°C) and is approved to US Military specification MIL-I-17563C (Class 1 and 3).

Ultraseal can boast a string of firsts - first with modern methacrylate-based sealants to market; first with recycling sealants; first with front-loading impregnation equipment; first with top loading rotational processing and first to introduce dry vacuum impregnation.

All were significant breakthroughs in impregnation technology. Methacrylate sealants cure to form a perfect and permanent seal in minutes rather than hours (as old-fashioned anaerobic sealants do). Recycling sealants use less chemicals, less water and produce less wastewater than conventional sealants therefore providing a superior performance impregnation sealant that is more economical and environmentally friendly.

For more information see website www.ultrasealamerica.com

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