

Ultraseal International produces White Paper on designing out the problem of porosity in casting

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Ann Arbor, MI ([RPRN](#)) 12/19/13 — Ultraseal International has produced a white paper that will help automotive manufacturers and their suppliers minimise the problems caused by porosity in cast metal parts.

Entitled "*The Problems of Porosity in Casting and the*

Solution through Design and Vacuum Impregnation" it is freely available as a download on Ultraseal International's [website](#) .

The guide sets out what porosity is, how it occurs as a natural phenomenon in the diecasting process, the different types of porosity and how it can be countered, both through the design of a component part and by vacuum impregnation.

The vacuum impregnation process is explained, along with the characteristics of different types of porosity sealant, including modern recycling porosity sealants such as Ultraseal's global benchmark recycling sealant Rexeal 100™.

Stephen Hynes, Marketing Director of Ultraseal International, said: "Porosity is a characteristic of the casting process which can lead to a variety of problems from "spotting out" of paintwork to the failure of parts that have to be pressure-tight.

"However it can be controlled and sometimes eliminated and this is especially important in parts that have to operate under pressure, for example engine blocks and cylinder heads.

"There are also some general rules about how to minimise porosity through the design of parts and we address those in the white paper. It is highly recommended reading for those in the automotive supply chain."

Many automotive manufacturers and suppliers already use vacuum impregnation with porosity sealants as a routine quality enhancement as they want to avoid costly product recalls or extended warranty issues as a result of casting porosity.

Parts that undergo vacuum impregnation include air compressors, cam carriers, cylinder blocks, cylinder heads, clutch cases, fuel pumps, oil pans, oil sumps, timing chain covers, transmission cases, turbochargers and water pumps.

Ultraseal International has been a leading innovator in the field of vacuum impregnation sealants and impregnation equipment for decades, being first to market with recycling impregnation sealants, first to market with modern methacrylate-based sealants and first to market front-loading impregnation equipment.

With headquarters in Coventry, UK, Ultraseal International has a truly global reach, having operations in China, India and the United States, an office in Japan and a network of 22 agents/distributors around the world.

To download the free guide, see [here](#)

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