

# Foseco's ACTICOTE CG coating range for the improved production of compacted graphite iron (CGI) castings.



**PRESS RELEASE**

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## **Foseco announce the launch of the ACTICOTE CG coating range for the improved production of compacted graphite iron (CGI) castings.**

These coatings have been especially developed to minimise the degradation of the graphite structure in the rim-zone of CGI castings. Without such preventative measures, there is the risk of the formation of a flake graphite containing skin that can have a thickness of typically up to 1mm, or in some cases more, which will affect both the mechanical properties and the machinability of the casting.

During the casting process a depletion of magnesium within the solidifying skin of the casting can occur due to reactions of the magnesium with sulphur and oxygen present in the moulding materials and/or in the mould atmosphere. This combined with the undercooling effects at the metal/mould interface can lead to a reduction in compacted graphite

formation in favour of flake graphite. ACTICOTE CG coatings act to provide a barrier to core gases and reduce undercooling, reducing the affected reversion layer to a minimum.

Additionally, the coatings have high performance benefits including:

- + The refractory filler is highly resistant to the high temperature of the liquid iron and has good insulation properties.
- + The coating is formulated with excellent rheological properties making it ideal for the dipping of cores, building the required layer thickness without runs or drips
- + The water-based coating has optimal drying properties without any spalling or the formation of craters or blisters, ensuring the cast surface is free from pin-holes, blemishes or scabs.

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