

MAGNELIS®

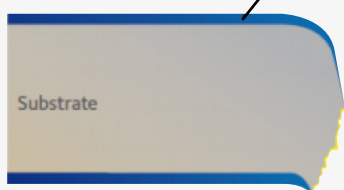
FACT SHEET CLICKFIT EVO – MAGNELIS® CORROSION

DESCRIPTION

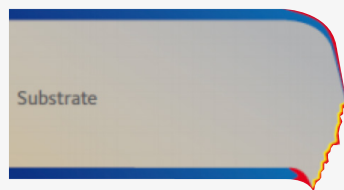
The material used in the main parts of ClickFit EVO are made of Magnelis® ZM310. This is the highest grade Magnelis® available. Magnelis® consist of a steel core that is coated on both sides. This coating, which comprises zinc, aluminium and magnesium, protects the large sheet areas against corrosion. Cutting the sheet, or punching holes in it, leaves unprotected edges without coating. Under the influence of the weather a thin layer of red rust (iron oxide) may form on the exposed edges

The rust is no reason for concern, however, because the Magnelis® top coats are perfectly capable of protecting the core. After the layer of iron oxide has formed, it is encapsulated by a layer of zinc oxide, which permanently protects the edges. This effect is called 'self-healing'. Arcelor has tested the reliability of self-healing rigorously under adverse conditions, and it is well-documented

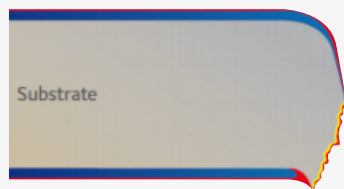
initial exposure period
(up to several weeks)



Intermediate exposure period
(beyond several weeks)



Long exposure period
(after more than a year)



The exposed cut end
of substrate is oxidized



Subjected to rain and condensation



The thin zinc- based film cotaining
Mg on the coating layer flows over
the cut end



Disappearing of red rust and
increasing of white rust



Outdoor exposure in
marine environment in
Brest/France

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