

Selection Steel | UniCote

TOPIC

A Corrosion Masterclass in Coated Products and Applications.

OVERVIEW

A lesson in corrosion mechanisms, galvanic protection and their implications for product performance and design.

PRESENTED BY

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LEARNING OUTCOMES

- Gain a basic understanding of corrosion theory.
- Understand how Galvanic protection works.
- Gain an appreciation of the history of galvanising.
- Understand the various alloy types and how these work to minimise corrosion.
- Future coated product technologies.
- Identify the various corrosivity classifications in Australia.
- Formal outcomes: *Design – Project Initiation and Conceptual Design PC25, PC28, Detailed Design and Construction Documentation PC39.*

QUESTIONS

1. Name the three conditions which must be satisfied for corrosion to occur?
2. In terms of electrochemistry, name the two different types of metallic coatings?
3. In what year did Luigi Galvani discover the electrical phenomenon related to dissimilar metals?
4. The application of a paint coating offers an additional _____ to protect against corrosion?
5. Name a macro environmental factor which can affect the longevity of coated steel?
6. Why is roof pitch important in maximising design life?
7. Why does regular washing slow the corrosion rate of steel?