

Coated Steel Pipelines



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High-Pressure Gas Pipelines are typically hundred's of kilometres long and generally buried 2-3 m underground. They represent critical infrastructure and the corrosion resistance of the steel pipeline is a function of the integrity of the protective coating in conjunction with the impressed current from Cathodic Protection (CP). The epoxy coatings used on gas pipelines can be damaged by the following mechanisms:

- water absorption leading to softening and swelling
- rock damage
- installation damage
- cathodic disbondment
- loss of adhesion (delamination)

ExcelPlas can perform the following non-destructive testing on operating gas pipelines:

- Durometer hardness over time as a function of exposure to water cup (DH)
- Specific Electrical Insulating Resistance (SEIR)
- Electrical Impedance Spectroscopy (EIS)
- Pull-Off Adhesion Testing
- Wet Sponge Holiday Testing (WSHT)
- Mix Ratio Testing for Epoxy Coatings

ExcelPlas can also perform the following laboratory based testing:

- Characterisation of steel corrosion products with XRD (hematite magnetite, siderite, goethite, lepidocrocite etc.)
- Cathodic Disbondment Testing (CDT)

ExcelPlas leads the way with digital communication with news blasts and news feeds in the industries and sectors in which it operates. eNewsletters and eAlerts are sent to its key customers weekly to be 'front of mind' for testing and analysis needs.

PRODUCT TESTING WEBSITES

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<http://www.uvtesting.com.au/>
<https://www.claddingtest.com/>
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DIGITAL MARKETING WEBSITES

<https://www.geosyntheticnews.com.au/>
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