

# ExcelPlas



INDEPENDENT TESTING AND ANALYSIS

ON PROTECTIVE COATINGS

100 µm

TO PREVENT CORROSION

## PCN

Protective Coatings News

October 2018 Vol. 2

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### The Latest News on Pipeline Coatings and Anti-Corrosion Coatings

Leading Source of Industry News on Epoxy & High Performance Coatings for Oil, Gas and Construction

Adelaide Corrosion Conference (11th-14th November, 2018) Save the Date + Exhibition of Protective Coatings for Corrosion Prevention

[-https://conference.corrosion.com.au/](https://conference.corrosion.com.au/)

[-https://conference.corrosion.com.au/2018-technical-program/](https://conference.corrosion.com.au/2018-technical-program/)

Forensic Coating Consultants (FCC) & ExcelPlas Coatings Lab Exhibiting at 2018 Corrosion Conference in Adelaide (11th-14th November, 2018)

<https://cloud.excelplas.com/index.php/s/1LTSHMvMGcjJJ6k>

Stay updated on the latest coatings news by subscribing to our PCN newsletter! It's FREE!



ExcelPlas has extensive analytical capabilities for testing Protective Coatings and provides Insulation Consulting for major oil and gas companies.

We conduct corrosion surveys, coating sampling, coating analysis and testing to ensure coating specifications for a wide range of onshore and offshore clients in Australia and the Asia-Pacific Region.

ExcelPlas Undertakes Analysis & Testing of Polymer Coating Systems including:

- Epoxy Protective Coatings
- Epoxy-Phenolic Protective Coatings
- Fusion Bonded Epoxy (FBE)
- Dual-Layer Fusion Bonded Epoxy (DLFBE)
- Liquid Applied Epoxy (LAE)
- Abrasion Resistant Overcoat (ARO)
- Three-Layer Polyethylene (3LPE)
- Multi-Component Liquid Spray (MCL)
- Heat Shrink Sleeves (HSS)

CONDITION MONITORING AND ANALYSIS OF CORROSION PREVENTION COATINGS



# ExcelPlas

## COATINGS TESTING LABORATORY

ExcelPlas Labs offer a full range of coating testing and analytical services to Australia's mining, oil, gas and infrastructure sectors, including forensic analysis for undertaking various coating based failure investigations and problem solving.

Testing on coatings that ExcelPlas can undertake includes:

- Coating Identification by Infra-red Analysis (FTIR)
- Degree of Cure by Thermal Analysis (DSC)
- Coating Filler Identification by X-ray Analysis (EDS/XRD)
- Coating Microstructure by Embedding, Polishing and Optical Microscopy (OM)
- Coating Thermal Stability and Composition by Thermogravimetric Analysis (TGA)

### DSC

- Phase transition
- Volatiles, T<sub>g</sub>
- Degree of cure
- Characterisation



### TGA

- Volatile compound
- Inorganic mass % mix ratio
- Element mapping for chlorides on paint flakes



### Microscopy

- Count layers and thickness of layers
- Assess porosity and voids
- Check distribution and orientation of filler particles



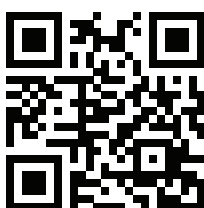
**TESTING OF EPOXY COATINGS, HEAT SHRINK SLEEVES AND TAPES, BARRIER TAPES AND MESHES**

## ExcelPlas Corrosion and Prevention 2018 Team



**Dr John Scheirs**  
Principal Consultant

Dr Scheirs has 25 years experience in studying the composition of polymers, their structure-property relationships and their failure behaviour. His expertise covers epoxy coatings analysis, testing and failure analysis of polymers and coatings.



**Dr Frank Bambino**  
Coatings Expert

Dr Bambino has 25 years experience in analytical analysis including the identification and compositional analysis of polymers. His expertise covers testing and failure analysis of coating systems.



*ExcelPlas recognises the importance and is committed to sustainable environmental practices in all business activities. Please scan this QR code to download our electronic business cards and other high resolution graphics for this event. Smartphone running iOS (11 or later) or Android comes with a built-in QR reader in its native Camera app.*