

## PROJECT CASE REPORT

### SOUTH32 WORSLEY ALUMINA



Fully insulated pipes ready for delivery

#### Project Information

Location	South West Western Australia
Client	South32 Worsley Alumina
Project	Thermal insulation of 1,4 km of pipe spools (1 to 12 m spool sections)
Objectives	<b>Personnel Protection against burns, Thermal Insulation and protection against Corrosion Under Insulation (CUI)</b>
Spraying Climatic Conditions	Ambient temperature range: +10°C to + 40°C Humidity range: 20 to 100%
Substrate	New or used lightly corroded spool pipes
Surface Preparation	New pipes: quick light sandblasting to get rid of preinstalled coating Used pipes: ST2 – ST3 mechanical brush to get rid of corrosion
Application	Ambient temperature spraying using Kings Graco series airless pump with hoper. 4 coats of 500 microns applied alternating white and black Metaltec TC. Last coat Grey finish obtained by mixing both colours.
System applied	Metaltec TC 2mm DFT
Challenges	Provide thermal insulation, personnel protection against burns and protection against Corrosion Under Insulation in a cost effective manner as part of the refurbishment of complete lines working at 120°C.
Result	All objective attained as per customer initial specifications

**Process:**

Delivery of pipes to Kwinana facility from Bunbury:



New pipe before surface preparation      Typical corrosion on used pipes delivered



Black coat applied on 1 m pipe / Rolling rig used for continuous spraying of 6 or 12 m pipes

