

CASE STUDY: WFGD CONCRETE TRENCHES & SUMPS

PROJECT DESCRIPTION

Corrosion protection to **2216 Sqm** of concrete trenches & sumps for the Kusile Power Station Build coal fired Wet Flue Gas Desulphurisation plant.

CLIENT

South Africa Electricity Supply Commission - ESKOM

INDUSTRY BACKGROUND

The WFGD Plant at Kusile Power Station Build, is the first of its kind in South Africa for coal-fired power stations and allows South Africa to conform to the Paris Agreement for environmental emission restrictions.

SCOPE OF WORK

The scope of works included the furnishing and installation of glass-flake linings for circa 2216 Sqm of open trenches and Sumps for the Wet Flue Gas Desulphurisation Plant. Corrocoat's supply obligation included the supply of all linings, primers, glass cloth, abrasive blast equipment and materials, safety equipment, protective equipment, airless application equipment, temporary structures and all site management & labour necessary to professionally deliver, install, QC test & warrant all site linings.

SUBSTRATE

New cast concrete with a minimum 30Mpa strength. In excess of 28 days old.

PRODUCTS USED

All concrete surfaces abrasive blast cleaned to remove surface laitance & thoroughly vacuumed to remove surface dust. All surfaces primed with Corrocoat **WCP** (Wet Concrete Primer) to wet-out the surface & seal concrete pores. Multi-directional woven-roving glass-fibre, saturated with **VE Laminating Resin** was applied to increase structural stability and limit any potential for shrinkage during curing, prior to the application of **POLYGLASS VEF** to a DFT of 1000 – 1500 µm.

APPLICATION DATE

June 2015 – February 2016

PHOTOGRAPHS

Top: Kusile WFGD Plant – Feed Trenches.
Middle: Trenches lined with WCP, Glass-fibre & Polyglass VEF to 1000 – 1500µm.
Bottom: Polyglass VEF lined sumps 2216 Sqm



CORROCOAT