

STEEL POLE ELECTRICAL INSULATION

INDUSTRY	Electrical Transmission
CLIENT	Western Power
DISTRIBUTOR	ShieldCrete International 1800 364 776 www.shieldcreteinternational.com
APPLICATOR	Polyurea WA
PROJECT	Application in-situ to provide aesthetically pleasing electrical insulation to steel transmission pole.
LOCATION	Perth, WA, Australia
SYSTEM	Mechanical abrasion, cleaning and application ShieldPoly F15 to a minimum 3mm thick.
DATE	2017

Description

Western Power wanted the new steel pole to be insulated in the bottom section to protect the public from Earth Potential Rise, particularly Step-Touch Potential.

Western Power selected ShieldPoly F15 and used Polyurea WA as the applicator.

The site was well protected to eliminate overspray getting on nearby vehicles and buildings, and the job went off with a hitch. Normally, it would be much more cost effective to do this coating in the yard before installation, but it can still be done in-situ.

The coating was applied thicker than the minimum of 3mm specified by the client, just to ensure thorough coverage and longevity.

ShieldPoly F15 has a minimum resistance of 18kV/mm thickness based on testing done at Endeavour Energy, and has a design life in this environment of at least 30 years, but is likely to last more than 50 years with minimal loss of performance.

