

**Client:**

Hunter Expressway Alliance

Main Contractor:

Thiess

Specialist Sub-contractors:

SEALS Group & Earthco Projects

Project description:

Sub-grade improvement (road construction)

Location:

Newcastle, NSW

Date:

December 2010

Product:

PolyCom Stabilising Aid

For detailed project information contact:

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Project Facts

Hunter Expressway Extension

Problem:

Sub-grade material is medium to highly reactive clays mostly Permian.

Construction method for expressway, access roads, construction and plant areas was cut and fill. This meant that areas brought to level exposed vulnerable low strength reactive sub-grade to weather and traffic damage during the construction phase leading to expensive re-work in damaged areas.

Solution:

SEALS Group solution was to stabilise the sub-grade area with PolyCom stabilising aid providing more workability and an increase in strength and flexibility as well as a very high degree of water resistance. This simply effected treatment eliminates or greatly reduces re-work and down time due to traffic or rain events.

Project Aims:

1. Deliver a sub-grade layer of increased strength and flexibility
2. Eliminate softening from water ingress
3. Reduce traffic damage in construction phase
4. Reduce down time after extreme weather events

PolyCom stabilisation of the sub-grade has delivered the desired outcomes of increased strength, flexibility, water resistance and a higher degree of material workability. This improved material is re-workable at any time and stabilisation has been achieved using standard on site construction equipment.

Improved, durable
sub-grade

