



SUSTAINABLE AGGREGATES

SOUTH AUSTRALIA

COOPER STREET KUDLA

Reclaimed asphalt as unsealed residential pavement

Products

Reclaimed asphalt is received at C&D recycling facilities predominantly in the form of slab asphalt removed from old pavements. The raw feed material is processed through crushing and screening to a grading based upon the DPTI PM2/20 specification but with little or no plasticity. The product is produced by Resourceco under the brand name "Bitumate™".

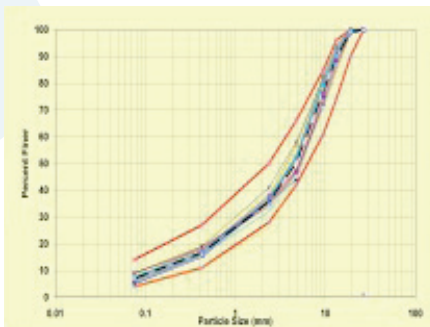


Figure 1. Raw feed reclaimed asphalt and manufacturing compliance

Application

The reconstruction of Cooper Street Kudla was undertaken by the City of Gawler works engineering department who chose Bitumate as the appropriate material for an unsealed surface. The City of Gawler has had significant experience with construction with Bitumate and its subsequent performance over at least the past 10 years.

Cooper Street is a regional access road to five residential properties approximately 900m long and 6m wide and contains one T-junction intersection.

Reconstruction of the road pavement in addition to installation of side drainage was required due to regular flooding.

The subgrade is typical red expansive clay and therefore a geo fabric was used on the formation with approximately 100mm of Bitumate placed and compacted as a wearing/basecourse.

Bitumate was chosen for this project due to its resistance to ravelling, low maintenance and low dust emitting surface. As an unsealed surface patrol grading is minimal, and with some residual bitumen provides some cohesion to reduce ravelling (particularly at the intersection) and some "re-healing" of the surface under traffic in hot weather occurs.

Performance

Performance of these types of pavements is displayed through the continued use of Bitumate as a low dust unsealed wearing surface.



CONTACT INFORMATION

For information on this project or any application of recycled materials as granular pavement layers please contact:

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